

PERSONAL / COMPANY INFORMATION

Current Company HiTechCivils (Pty) Ltd
Employee Willem Bouwer
Phone +27 828721509
Email Address wbouwer@hitechcivils.com
Location Benoni, Gauteng, South Africa, 1501
Website <https://www.linkedin.com/company/hitechcivils>



PROJECTS
(Please print on A3 Paper)

ABBREVIATIONS

PM	Project Manager	TM	Team Member
TL	Task Leader	AD	Analysis / Design
R	Reviewer	S	Site Supervision
TS	Technical Specialist	CI	Commissioning Installation

Employer(s) : HiTechCivils & Other
Period : Oct 2018 - Current

Project Start Date	Project End Date	Project Type	Sub Types	Project Name	Project Description	Country	Role in Project / Position					Specific Tasks			Duties / Activities Performed	Fee Value / Est. Fee Value (Excl. VAT)	Client Type	Client / Project Owner	My Employer
							PM	TL	R	TS	TM	AD	S	CI					
Jan 2021	Current	TIA - Power Plant	Traffic / Transport Impact Assessment	TIA - Kuruman Solar Facility	Prepare Traffic Management Plan & TIA for the Kuruman Solar Power Facility	South Africa	X			X	X	X			Project Management. Plan surveys. Analyse traffic. Prepare TIA. Write Report	65 000	EIA Specialist	Sativa Travel and Environmental Consultants (Pty) Ltd	HiTechCivils
Jan 2021	Current	TIA - Power Plant	Traffic / Transport Impact Assessment	TIA - De Aar Solar Facility	Prepare Traffic Management Plan & TIA for the De Aar Solar Power Facility	South Africa	X			X	X	X			Project Management. Plan surveys. Analyse traffic. Prepare TIA. Write Report	75 000	EIA Specialist	Sativa Travel and Environmental Consultants (Pty) Ltd	HiTechCivils
Jul 2020	Dec 2020	IRPTN / IPTN / BRT "Light"	Status Quo, Feasibility, Business Plan, Financial Plan, Implementation Plan	Integrated Corridor Management (Multi Modal Approach)	Investigate Feasibility of 3 Corridors based on an ICM (Integrated Corridor Management) approach. Demand analysis, Investigate, Infrastructure, Facilities and propose mixed mode services and interventions for a reliable, cost effective integrated solution to public transport demand.	South Africa	X			X	X				Prepare tender documentation & ICM methodology. Manage consultants to ensure that the 3 projects are delivered as per the Client's requirements.	1 800 000	Metro	Johannesburg Development Agency & City of Johannesburg	HiTechCivils
Oct 2020	Nov 2020	eCommerce Store, Marketing	Website Development & Social Media Marketing	HANNON East Rand Online Store	Develop & host an online eCommerce store for Hannon East Rand. Functionality includes: Product pages, Categories, Brands and various promotional options. Link with M & M Monroe's purchase pages. Developed in WordPress and PHP.	South Africa	X	X		X	X	X			Develop a WordPress (PHP) website. Provide online support to client. Provide links to the M & M Monroe's website to make purchases. Provide marketing support on Facebook, Instagram, Google My Business and Google Adverts.	12 000	Retailer	M & M Monroe's (Pty) Ltd	HiTechCivils

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Mar 2020	Oct 2020	TIA - Filling Station	Traffic / Transport Impact Assessment	Shell Filling Station & Training Centre	Transport Impact Assessment of upgrading of existing filling station and a new training centre on Bram Fisher Drive	South Africa	X			X	X				Assist modeller with Trip Generation, Trip Distribution, Trip Assignment, and analysis. Approve traffic surveys. Prepare recommendations and review report. Liaison with Client.	120 000	Fuel Company	Shell	ITS Global	
Sep 2020	Oct 2020	eCommerce Store, Marketing	Website Development & Social Media Marketing	TakeSomeMore Online Store	Develop & host an online eCommerce store for Hannon East Rand. Functionality includes: Product pages, Categories, Brands and various promotional options. Link with M & M Monroe's purchase pages. Developed in WordPress and PHP.	South Africa	X	X		X	X	X			Develop a WordPress (PHP) website. Provide online support to client. Provide links to the M & M Monroe's website to make purchases. Provide marketing support on Facebook, Instagram, Google My Business and Google Adverts.	12 000	Retailer	M & M Monroe's (Pty) Ltd	HiTechCivils	
Aug 2019	Dec 2020	Freight	Surveys, Freight, Freight Database, Freight Website	National Freight Databank	Update the National Freight Databank: Database and Website update.	South Africa		X		X	X				Analyse existing data that is available Develop an Android survey application for Freight classified link counts. Train surveyors. Develop a design specification for the website and database upgrade. Review reports. Update & commission the Freight Website using Tableau, SQL Server, PostGre SQL & PostGIS, GeoServer, development in C# & ASP)	3 600 000	National Government	National Department of Transportation	ITS & HiTechCivils	
Aug 2020	Sep 2020	eCommerce Store	Website Development	Upgrade existing M & M Monroe's Website	Upgrade existing website to accommodate links from TakeSomeMore & Hannon East Rand websites for purchases.	South Africa	X	X		X	X	X			Upgrade existing website. Develop, Test, Deploy	15 000	Retailer	M & M Monroe's (Pty) Ltd	HiTechCivils	
Jul 2020	Jan 2021	Website Development	Website Development	Various Website for a Online Mask Styore	Develop 20 Mask retail websites	South Africa	X	X		X	X	X		X	Develop 20 Mask retail websites in PHP & WordPress	20000	Retailer	M & M Monroe's (Pty) Ltd	HiTechCivils	
Jun 2019	Apr 2020	TIA - Mixed land use	Traffic / Transport Impact Assessment	Princess Plot TIA	Transport Impact Assessment of a new mixed land use development in Princess on the West Rand.	South Africa	X			X	X	X			Assist modeller with Trip Distribution, Trip Assignment, and analysis. Attend meetings with client and Local Council. Prepare recommendations and review report.	60 000	Metro	City of Johannesburg / Johannesburg Development Agency	ITS Global	
May 2019	Sep 2019	TIA - Housing	Traffic / Transport Impact Assessment	Glen Marais 3 Housing Projects	Transport Impact Assessment of 3 housing projects for a developer in Glen Marais, Ekurhuleni	South Africa				X	X				Assist modeller with Trip Distribution, Trip Assignment and analysis. Prepare recommendations and review report.	120 000	Private Developer	Private Developer	ITS Global	
Jan 2019	Jan 2019	Surveys: Roadside Interviews	Android application on handheld device	R101: Roadside (OD) Interviews	Develop a Roadside Survey Application to record Origin and Destinations along the R101, provincial route. The survey consisted of 9 questions to determine why the R101 was used and not the N1 as a preferred route for motorists and trucks.	South Africa		X		X	X	X			Develop local and server database. Develop, test and deploy Handheld Android application. Train surveyors. Collect survey data from handheld devices. Analyse data using excel pivot tables	12 000	Parastatal	SANRAL (South African National Roads Agency SOC Ltd)	ITS Global	

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Nov 2018	Apr 2019	TIA / Traffic Safety - Construction of reservoir	Traffic / Transport Impact Assessment	CoE Reservoir TIA	Transport Impact Assessment of construction of 3 new reservoirs in the City of Ekurhuleni (CoE)	South Africa				X	X	X			Assist modeller with Trip Generation, Trip Distribution, Trip Assignment, and analysis. Approve traffic surveys. Prepare recommendations and review report.	90 000	Metro	City of Ekurhuleni, (CoE)	ITS Global
Oct 2018	Jun 2020	ITS - Vehicle Tracking Data	Data Analysis, GIS Website	Tracker Data Analysis & Website Development	Analyse OD data. Develop a geospatial database to display vehicle tracking data by OD pairs, Journey Times and other metrics	South Africa		X		X	X	X			Analyse OD data. Develop PostGre SQL / Postgis Database, Configure GeoGerver GIS, Develop CMS Portal. Developed in PHP, & JavaScript. Data also viewed in Google BigQuery	250 000	ITS Global	ITS Global	ITS Global
Oct 2018	Sep 2019	ITP - District Integrated Transport Plan	District Integrated Transport plan	Sedibeng DITP Update 2018	Compile a District Integrated Transport Plan, that includes a Public Transport Chapter, RatPlan and Public Transport Strategy and Operational Plan	South Africa		X		X	X	X			Updated the Public Transport Chapter, RatPlan and Transport Strategy. Updated the website (GeoServer, PostGre SQL)	1 800 000	Provincial Government	Gauteng Provincial Government on behalf of District	ITS Global
Oct 2018	Aug 2019	TIA - Large Housing Development / Mixed Land Use	Traffic / Transport Impact Assessment	Update TIA & Section 7 Report - Esselen Park	Esselen Park TIA Update & Section 7 Report, including detailed layout design of roads.	South Africa		X		X		X			Update TIA, update land use, update PTV Vistro analysis, update report. Review detailed layout designs for roads.	430 000	Local Council	Ekurhuleni Human Settlements	ITS Global
Oct 2018	Aug 2019	ITP - District Integrated Transport Plan	District Integrated Transport plan	West Rand DITP Update 2018	Compile a District Integrated Transport Plan, that includes a Public Transport Chapter, RatPlan and Public Transport Strategy and Operational Plan	South Africa		X		X	X	X			Updated the Public Transport Chapter, RatPlan and Transport Strategy. Updated the website (GeoServer, PostGre SQL)	1 900 000	Provincial Government	Gauteng Provincial Government on behalf of District	ITS Global
Oct 2018	Nov 2018	Freight Databank	Website Hosting	Update the Gauteng Freight Databank and website	Update the Gauteng Freight Databank and website	South Africa		X		X	X				Configured the Gauteng Freight Databank Website on the Clients Server (GeoServer & ShapeFiles)	20 000	Provincial Government	Gauteng Provincial Department of Roads and Transportation (GPDRT)	ITS Global

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Employer(s) : GIBB (Pty) Ltd

Period : Jan 2013 – Oct 2018

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Sep 2018	Oct 2018	Traffic Signal Design	Design & Site Inspection	Gerhard & Von Willich Signal Design & Post Construction Review	Gerhard & Von Willich Signal Design & Post Construction Review	South Africa		X		X		X			Review & update signal design. Site inspection of installed signals.	30 000	Parastatal	Gautrain Management Agency (GMA)	GIBB (Pty) Ltd
Sep 2018	Oct 2018	NMT Study	Walkways & Cycle lanes	Orlando NMT Phase 2	Orlando NMT Phase 2. Route identification, analysis & design input.	South Africa	X			X		X			Site visits & plan surveys. Video survey of routes. Prepare initial routes for further analysis.	347 250	Metro	City of Johannesburg (CoJ)	GIBB (Pty) Ltd
Sep 2018	Sep 2018	Traffic Signal Design	Design & Site Inspection	Constantia Drive & Joseph Lister Signal Design	Constantia Drive & Joseph Lister Signal Design	South Africa		X		X		X			Site inspection. Review & update signal design.	35 000	Developer	Hospital	GIBB (Pty) Ltd
Sep 2018	Sep 2018	Feasibility Study		World Congress Centres Feasibilities	World Congress Centres Feasibility. Technical input for sites in Zimbabwe and Nigeria	South Africa				X		X			Road network, access and layout inputs to feasibility study.	15 000	Bank	World Bank	GIBB (Pty) Ltd
Aug 2018	Nov 2018	TIA - Gas to Power Plant	Traffic / Transport Impact Assessment	Sasol Mozambique Gas to Power Plant TIA	Sasol Mozambique Gas to Power Plant TIA, abnormal vehicle loads & construction vehicle impact	Mozambi que	X		X	X		X			Site visit, road infrastructure surveys, construction trip generation, analysis, write report.	75 000	Fuel Company	SASOL	GIBB (Pty) Ltd
Apr 2018	Aug 2018	Traffic Assessment - Mine vehicle operations	Holding area, weighbridges, operational analysis	Matla Mine Comprehensive Traffic Study	Matla Mine Comprehensive Traffic Study. Mine Vehicle Operations, Weighbridge data analysis. Operational improvements recommendations.	South Africa		X		X		X			Site visit, analyse weighbridge loading frequency. Propose truck holding area size, additional weighbridges, and operational improvements.	160 000	Mine	Matla Mine	GIBB (Pty) Ltd
Feb 2018	Sep 2018	Roads Master Plan	Sub area reports	Sub area road master plan report - Lakeside & Northmead	Determine current and future land use. Investigate current developments. Prepare a SATURN mesoscopic intersection capacity analysis model for the area. Present an implementation plan with short-, medium- and long-term interventions.	South Africa	X	X	X			X			Project management. Client liaison and stakeholder consultation. Perform all steps in the modelling in SATURN; obtain land use, prepare trip generation based on land use. Prepare OD matrix for all scenarios. Network design, coding for nodes, intersections and lanes. Prepare interventions and modelling thereof. Write report and generate GIS drawings. Present findings to client.	560 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Feb 2018	Mar 2018	Traffic Safety Study	Traffic Calming	PPC Riebeeck Park Traffic Safety Study	PPC Riebeeck Park Traffic Safety Study. Investigate road infrastructure, safety and speed	South Africa	X		X	X		X			Inputs to safety review of the road. Review the trip generation for the additional trucks on the road. Review report.	100 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd

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					through the Riebeeck Park town toward the PPC Factory.														
Jan 2018	Aug 2018	Roads Master Plan	Sub area reports	Sub area road master plan report - Meadowdale - Jetpark - Isando - OR Tambo	Determine current and future land use. Investigate current developments. Prepare a SATURN mesoscopic intersection capacity analysis model for the area. Present an implementation plan with short-, medium- and long-term interventions.	South Africa	X		X			X			Project management. Client liaison and stakeholder consultation. Perform all steps in the modelling in SATURN; obtain land use, prepare trip generation based on land use. Prepare OD matrix for all scenarios. Network design, coding for nodes, intersections and lanes. Prepare interventions and modelling thereof. Write report and generate GIS drawings. Present findings to client.	280 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Jan 2018	May 2018	Roads Master Plan	Sub area reports	Sub area road master plan report - Witfield - Jansen Park - Boksburg	Determine current and future land use. Investigate current developments. Prepare a SATURN mesoscopic intersection capacity analysis model for the area. Present an implementation plan with short-, medium- and long-term interventions.	South Africa	X		X						Project management. Client liaison and stakeholder consultation. Assist with land use and trip generation. Manage subconsultant during the analysis and report writing phase. Review modelling and calculations. Review drawings and report. Present findings to client.	280 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Jan 2018	Mar 2018	Roads Master Plan	Sub area reports	Sub area road master plan report - Van Riebeeck Park & Edleen & Spartan	Determine current and future land use. Investigate current developments. Prepare a SATURN mesoscopic intersection capacity analysis model for the area. Present an implementation plan with short-, medium- and long-term interventions.	South Africa	X		X						Project management. Client liaison and stakeholder consultation. Assist with land use and trip generation. Manage subconsultant during the analysis and report writing phase. Review modelling and calculations. Review drawings and report. Present findings to client.	210 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Aug 2017	Apr 2018	TIA - Mine Access Road	Traffic / Transport Impact Assessment	Matla Sublime Road Access road upgrade, traffic impact assessment and intersection upgrades.	Matla Sublime Road Access road upgrade, traffic impact assessment and intersection upgrades.	South Africa		X	X	X		X			Site Visit, obtain truck volumes from weighbridge system. Analysis in SIDRA. Propose mitigating measure and access road improvements to improve safety. Write report.	120 000	Mine	Matla Mine	GIBB (Pty) Ltd
Jun 2017	Mar 2018	Roads Master Plan	Sub area reports	Sub area road master plan report - Pomona & Brentwood Park & Atlasville	Determine current and future land use. Investigate current developments. Prepare a SATURN mesoscopic intersection capacity analysis model for the area. Present an implementation plan with short-, medium- and long-term interventions.	South Africa	X		X						Project management. Client liaison and stakeholder consultation. Assist with land use and trip generation. Manage subconsultant during the analysis and report writing phase. Review modelling and calculations. Review drawings and report. Present findings to client.	280 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Jun 2017	Mar 2018	Roads Master Plan	Sub area reports	Sub area road master plan report - Rhodesfield - Kempton Park -	Determine current and future land use. Investigate current developments. Prepare a SATURN mesoscopic intersection capacity analysis model for the area. Present an implementation plan	South Africa	X		X						Project management. Client liaison and stakeholder consultation. Assist with land use and trip generation. Manage subconsultant during the analysis and report writing phase. Review modelling and calculations. Review drawings and report. Present findings to client.	280 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd

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				Aston Manor - Glen Marais	with short-, medium- and long-term interventions.														
Feb 2017	Apr 2017	Parking Study	Public Transport	Gautrain West Street Public Transport Accommodation	GMA West Street Public Transport Accommodation. Evaluate current operations and propose on street improvements	South Africa	X			X		X			Conduct roadside interviews with public transport operators. Count vehicles illegally parked. Design new on street an on-site parking and drop-off facilities.	80 000	Parastatal	Gautrain Management Agency (GMA)	GIBB (Pty) Ltd
Jan 2017	Mar 2017	TIA - Fire station	Traffic / Transport Impact Assessment	Lehae Fire station	TIA - Lehae Fire station and access control	South Africa	X		X	X		X			Project management & project team management. Assist with 4 Step modelling in SIDRA. Guide junior engineers to analyse all aspects of the project. Review modelling (SIDRA) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report.	60 000	Local Council	City Of Johannesburg (CoJ)	GIBB (Pty) Ltd
Jan 2017	Mar 2017	ITS: E-Toll	OD Analysis / Cost per user group	E-Toll Investigation Panel Technical Input	E-Toll Investigation Panel Technical Input. Analyse OD patterns, Travel Time, Speeds and Costs per user group and mode from gantry data.	South Africa						X			Analyse OD patterns, Travel Time, Speeds and Costs per user group and mode from gantry data. Data save in MS SQL server database.	60 000	Parastatal	SANRAL (South African National Roads Agency SOC Ltd)	GIBB (Pty) Ltd
Jan 2017	Jan 2017	eCommerce Store	Upgrade Website	Upgrade existing website to an eCommerce Store with products and services. Developed in WordPress and PHP.	Upgrade existing website to an eCommerce Store with products and services. Developed in WordPress and PHP.	South Africa	X	X		X	X	X			Develop, Test, Deploy	12 000	Retailer	M & M Monroe's (Pty) Ltd	Private
Dec 2016	Aug 2017	Commuter Rail Study	New commuter rail lines & stations	Dar Es Salaam Commuter Rail	Dar Es Salaam Commuter Rail. Line and station identification for commuter rail in Dar Es Salaam.	Tanzania		X	X	X					Site visit in Dar Es Salaam. Consultation with Transport Authorities including data collection. Review of demand analysis and station sizing.	1 800 000	Government	Dar Es Salaam	GIBB (Pty) Ltd
Aug 2016	Sep 2016	Access Report	Access Report	Lenasia Ext 7 - Section 7 Report	Lenasia Ext 7 - Provincial Route Access / Geometric Changes Report (Section 7)	South Africa			X	X					Review Section 7 report compiled by a senior engineer.	30 000	Private Developer	Private Developer	GIBB (Pty) Ltd
Jul 2016	Jul 2017	CITP - Update Year	Comprehensive Integrated Transport plan	Rustenburg CITP - Update	Rustenburg Comprehensive Integrated Transport Plan(CITP) - Update existing ITP with the latest transportation / land use / development information	South Africa	X	X	X	X		X			Project manage a multi disciplinary team of consultants to produce the updated CITP report. Facilitate the update of all chapters. Input into all chapters. Write report and review consultants input to the report.	280 000	Metro	Transport Rustenburg Incubation Programme (Trip)	GIBB (Pty) Ltd
Jun 2016	Jun 2016	Tender Evaluation	Review submitted tenders	PRASA Braamfontein Expansion - Tender Review	PRASA Braamfontein Expansion, Tender Review for Traffic Management Plan and Traffic Components	South Africa			X	X					Review tenders and score submissions.	24 000	Parastatal	PRASA	GIBB (Pty) Ltd
May 2016	Feb 2018	Roads Master Plan	Sub area reports	Sub area road master plan report - Buhle Park	Determine current and future land use. Investigate current developments. Prepare a SATURN mesoscopic intersection capacity analysis model for the area. Present an implementation plan	South Africa	X		X						Project management. Client liaison and stakeholder consultation. Assist with land use and trip generation. Manage subconsultant during the analysis and report writing phase. Review modelling and calculations. Review drawings and report. Present findings to client.	210 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd

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							PM	TL	R	TS	TM	AD	S	CI					
					with short-, medium- and long-term interventions.														
May 2016	Aug 2016	Transport Governance Framework for ITS (TMC, UTC, CCTV, APTMS, VMS, AFC)	Advisory	CoJ Transport Governance Framework	City of Johannesburg (CoJ) Transport Governance Framework	South Africa			X	X					Review ITS components (TMC, UTC, CCTV, APTMS, VMS, AFC) of the Governance Framework and propose amendments	1 200 000	Metro	City of Johannesburg (CoJ)	GIBB (Pty) Ltd
Apr 2016	Aug 2017	Master Planning / TA - Mixed land use	Traffic / Transport Impact Assessment	Savannah City Major Mixed Transport Assessment	Savannah City Major Mixed Land Use Development Transport Assessment and Master Planning	South Africa	X		X	X		X			Project management & project team management. Client liaison and stakeholder consultation including public meetings. Assist with 4 Step modelling in PTV Vistro. Guide senior engineers to analyse all aspects of the project. Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	180 000	Developer	Basil Read	GIBB (Pty) Ltd
Mar 2016	Dec 2017	MRE (Municipal Regulatory Entity) Study for Public Transport Licenses	Feasibility Study / Advisory	CoJ Public Transport Operating Licences Investigation. Feasibility of MRE.	Investigate the feasibility of establishing a MRE to issue Public Transport licenses in the City of Johannesburg. Feasibility Plan, Options Analysis, Business Plan and draft implementation plan.	South Africa	X		X	X		X			Project management of multi-disciplinary team. Client & stakeholder (Operators, Agencies, Provincial Regulator) meetings. Review NLTA (National Land Transport Act) to determine if MRE would be possible. Transportation Inputs. Propose structure, operational requirements, operating procedures, job descriptions of the potential MRE. Determine feasibility and funding. Prepare a business plan.	1 410 000	Metro	City of Johannesburg (CoJ)	GIBB (Pty) Ltd
Mar 2016	Sep 2016	TIA - Government Offices	Traffic / Transport Impact Assessment	CoJ Metro Centre TIA	CoJ Metro Centre TIA. Redevelopment of the Metro Centre. Evaluate additional traffic, access arrangements and impact of new land use controls.	South Africa		X	X	X					Project management & project team management. Guide junior engineers to analyse all aspects of the project. Review Saturn Modelling and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report.	430 000	Metro	City of Johannesburg (CoJ)	GIBB (Pty) Ltd
Jan 2016	Sep 2016	ITS - IRPTN / IPTN / BRT Advisory	Advisory	IRPTN Public Transport Operational Support to Metro's	DBSA (Development Bank of South Africa) & National Treasury: IRPTN Public Transport Operational Support to Metro's (City Of Johannesburg & City Of Tshwane)	South Africa		X		X		X			Analysis of APTMS, DIVA and Financial data. Provide feedback on optimising the BRT routes. Generate GIS maps.	800 000	DBSA (Development Bank of South Africa) & National Treasury:	National Treasury	GIBB (Pty) Ltd
Jan 2016	May 2016	TIA - Rail / Parking / Access	Traffic / Transport Impact Assessment	Gautrain Samrand Station TIA updates and Access option evaluation	Evaluate best parking layout and access arrangements for the proposed new Gautrain Station at Samrand	South Africa	X			X		X			Design & review parking layouts. Evaluate additional access roads. Review updated TIA. Client consultation.	120 000	Parastatal	Gautrain Management Agency (GMA)	GIBB (Pty) Ltd
Nov 2015	Nov 2015	Website & Hosting	Develop Website	Develop new website for a beauty salon. Developed in	Develop new website for a beauty salon. Developed in WordPress and PHP.	South Africa	X	X		X	X	X			Develop, Test, Deploy	10 000	Retailer	M & M Monroe's (Pty) Ltd	Private

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				WordPress and PHP.															
Jun 2015	Dec 2017	Roads Master Plan	Traffic Counts	City of Ekurhuleni (CoE) Road Master Plan 2015 – 2018 - Traffic Counts	Plan and manage Traffic Counts & Freight Surveys for CoE Road Master Plan	South Africa	X	X				X			Project management & project team management. Plan traffic counts & freight surveys. Prepare traffic counts for input into SATURN	1 790 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Jun 2015	Oct 2017	TIA - One way system	Traffic / Transport Impact Assessment	Germiston CBD - One Way System	Develop a Saturn model to evaluate a new proposed one way system in the Germiston CMD	South Africa	X		X						Project management. Client liaison and stakeholder consultation. Manage subconsultant during the analysis and report writing phase. Review modelling and calculations. Review drawings and report. Present findings to client.	282 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Jun 2015	Oct 2017	Roads Master Plan	Sub area reports	Sub area road master plan report - Tembisa (north of K60)	Determine current and future land use. Investigate current developments. Prepare a SATURN mesoscopic intersection capacity analysis model for the area. Present an implementation plan with short-, medium- and long-term interventions.	South Africa	X		X						Project management. Client liaison and stakeholder consultation. Assist with land use and trip generation. Manage subconsultant during the analysis and report writing phase. Review modelling and calculations. Review drawings and report. Present findings to client.	350 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Jun 2015	Aug 2015	TIA - Mixed land use	Traffic / Transport Impact Assessment	Good Hope TIA	TIA - Good Hope, housing & mixed land use development. An additional Provincial Route Access / Geometric Changes Report (Section 7)	South Africa	X		X	X		X			Project management & project team management. Local Council consultation. Assist with 4 Step modelling in PTV Vistro. Guide junior engineers to analyse all aspects of the project. Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	50 000	Local Council	Ekurhuleni Human Settlements	GIBB (Pty) Ltd
Jun 2015	Aug 2015	Master Planning - NMT	ITS - Stations / Tracking / Card Systems	Gauteng NMT Master Plan	Establishing the Status Quo of Non Motorised Transport (NMT), including Cycle Routes, Pedestrian Footways and Universal Access (UA) in the Gauteng Province. Developing a plan through consultation and workshopping for implementation over the next few years together with budgets and priorities for all Municipalities within Gauteng Province (Master Plan). A Bicycle Share Scheme will also be investigated further.	South Africa			X	X					Technical inputs on ITS components of the Bicycle Share Scheme.	1 190 000	Provincial Government	Gauteng Department of Public Transport, Roads and Works (GDPTRW)	GIBB (Pty) Ltd
Jun 2015	Jun 2015	TIA - Mini Warehouse & Parking Study	Traffic / Transport Impact Assessment	Cedar Road TIA	Cedar Road Storage Facility, access and parking reduction report.	South Africa	X			X		X			Project management & project team management. Assist with 4 Step modelling in PTV Vistro. Guide junior engineers to analyse all aspects of the project. Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.).	45 000	Developer	StorAge	GIBB (Pty) Ltd

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							PM	TL	R	TS	TM	AD	S	CI					
															Review drawings and report. Present findings to client.				
May 2015	May 2015	TIA - Mini Warehouse & Parking Study	Traffic / Transport Impact Assessment	Craighall TIA	Craighall Storage Facility, access and parking reduction report.	South Africa	X			X		X			Project management & project team management. Assist with 4 Step modelling in PTV Vistro. Guide junior engineers to analyse all aspects of the project. Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	40 000	Developer	StorAge	GIBB (Pty) Ltd
Apr 2015	Nov 2015	TIA - Large Housing Development / Mixed Land Use	Traffic / Transport Impact Assessment	Birchleigh North Ext 4 / Esselen Park TIA	TIA - Esselen Park, housing & mixed land use development. An additional Provincial Route Access / Geometric Changes Report (Section 7). Including public meetings.	South Africa	X		X	X		X			Project management & project team management. Client liaison and stakeholder consultation including public meetings. Assist with 4 Step modelling in PTV Vistro. Guide junior engineers to analyse all aspects of the project. Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	282 500	Local Council	Ekurhuleni Human Settlements	GIBB (Pty) Ltd
Apr 2015	Jun 2015	TIA - Mixed land use	Traffic / Transport Impact Assessment	Pomona Estate TIA	TIA - Pomona Estate, housing & mixed land use development. An additional Provincial Route Access / Geometric Changes Report (Section 7)	South Africa	X		X	X		X			Project management & project team management. Local Council consultation. Assist with 4 Step modelling in PTV Vistro. Guide junior engineers to analyse all aspects of the project. Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	45 000	Local Council	Ekurhuleni Human Settlements	GIBB (Pty) Ltd
Feb 2015	Dec 2017	Roads Master Plan	Roads Master Plan - Macro Model (EMME)	Aerotropolis Road Master Plan 2015 – 2018: Macro Model	Aerotropolis Road Master Plan 2015 – 2018: Macro modelling in EMME 2. Forecast years 2025 & 2037. Prepare road master plan for this area around the OR Tambo airport. Prepare implementation plan.	South Africa	X		X			X			Project management & project team management. Client liaison and stakeholder consultation. Assist with inputs to EMME 2 macro model. Guide senior engineers to analyse all aspects of the project. Review modelling and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Write report. Present findings to client.	400 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Feb 2015	Oct 2017	Roads Master Plan + Develop a Freight & Public Transport Matrix	Roads Master Plan - Macro Model (EMME)	City of Ekurhuleni (CoE) Road Master Plan 2015 – 2018: Macro Model	Ekurhuleni Municipality Road Master Plan 2015-2018 - Macro modelling in EMME 2. Forecast years 2025 & 2037. Prepare a Freight & Public Transport matrix to enhance the modelling. Prepare road master plan report with implementation plan.	South Africa	X		X						Project management & project team management. Client liaison and stakeholder consultation. Assist with inputs to EMME 2 macro model. Guide senior engineers to analyse all aspects of the project. Review modelling and calculations. Review drawings and report. Present findings to client.	3 050 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd
Feb 2015	Jun 2015	TIA - Large Housing Development / Mixed Land Use	Traffic / Transport Impact Assessment	Tembisa Ext 25 - TIA	TIA - Tembisa Ext 25, housing & mixed land use development. An additional Provincial Route Access / Geometric Changes Report	South Africa	X		X	X		X			Project management & project team management. Client liaison and stakeholder consultation including public meetings. Assist with 4 Step modelling in PTV Vistro. Guide junior engineers to analyse all aspects of the project.	300 000	Metro	City of Ekurhuleni (CoE)	GIBB (Pty) Ltd

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							PM	TL	R	TS	TM	AD	S	CI					
					(Section 7). Including public meetings.										Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.				
Feb 2015	Apr 2015	TIA - Mixed land use	Traffic / Transport Impact Assessment	Esther Park TIA	TIA - Esther Park, housing & mixed land use development. An additional Provincial Route Access / Geometric Changes Report (Section 7)	South Africa	X		X	X		X			Project management & project team management. Local Council consultation. Assist with 4 Step modelling in PTV Vistro. Guide junior engineers to analyse all aspects of the project. Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	60 000	Local Council	Ekurhuleni Human Settlements	GIBB (Pty) Ltd
Oct 2014	May 2015	ITS - Parking	Parking Systems/ Boom Gates/ Ticketing Systems	Gautrain Centurion Station Additional Parking	Gautrain Centurion Station Additional Parking. Traffic Impact Assessment. Evaluate parking layout and access controls. Parking Systems ITS review	South Africa		X		X		X			Review and redesign access to the new parking and the existing parking across the street. Design booms for demand. Evaluate parking systems and propose a solutions for the site.	65 000	Parastatal	Gautrain Management Agency (GMA)	GIBB (Pty) Ltd
Oct 2014	Feb 2015	ITS - Cycling	Bike Sharing	CoJ Bike Sharing Feasibility Study	Feasibility of implementing a Bike Sharing Scheme in Priority Areas (Diepsloot, Soweto, Alexandra, Jhb CBD and UJ-Wits Corridor)	South Africa				X		X			Technology inputs in terms of bicycles, stations, bicycle tracking, bicycle maintenance and fare collections	650 000	Metro	City of Johannesburg (CoJ)	GIBB (Pty) Ltd
Sep 2014	Oct 2014	TIA - Mixed land use	Traffic / Transport Impact Assessment	TIA - Terenure Ext 79	TIA - Terenure Housing Development	South Africa	X		X	X		X			Project management & project team management. Local Council consultation. Assist with 4 Step modelling in PTV Vistro. Guide junior engineers to analyse all aspects of the project. Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	40 000	Metro	City of Johannesburg (CoJ)	GIBB (Pty) Ltd
May 2014	Aug 2014	TIA - NMT / Train Station	Traffic / Transport Impact Assessment	Noordgesig Traffic Investigation	Investigate the possibility of improving vehicle and Non Motorised Transport (NMT) access from the Noordgesig area to the Mlamlankunze Train Station as well as investigating the Feasibility of a possible new intersection at the Soweto Highway, Eben Cuyler Drive and Stadium Road location.	South Africa	X		X						Project management & project team management. Propose NMT route to investigate. Review modelling (SIDRA) and calculations. Review drawings and report.	130 000	Consultant to Government	GMH Tswelelo Consulting Engineers	GIBB (Pty) Ltd
May 2014	May 2014	ITS - Cycling	Stations / Tracking / Card Systems	Rosebank Complete Streets	Feasibility and Planning of Cycle Lanes and Sidewalks around Rosebank and Sandton Nodes (18.5Km)	South Africa		X		X		X			Technology inputs in terms of bicycles, stations, bicycle tracking, bicycle maintenance and fare collections	1 770 000	Metro	City of Johannesburg (CoJ)	GIBB (Pty) Ltd
Apr 2014	Jun 2016	CITP + Freight Chapter - Overhaul	Comprehensive Integrated Transport plan	Rustenburg CITP - Complete Overhaul	Develop a Comprehensive Integrated Transport Plan (CITP) for the Rustenburg Local Metropolitan (RLM) for the period 2014 to 2018. This	South Africa	X	X	X	X		X			Project manage a multi disciplinary team of consultants to produce the CITP report. Prepared the Tender Proposal (Methodology, Work Programme and Costing). Project Management. Client Liaison. Various Workshops (Skills Transfer,	1 610 000	Metro	Obed Moleele Transport Rustenburg	GIBB (Pty) Ltd

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							PM	TL	R	TS	TM	AD	S	CI					
					includes the summary of the CPTR, Operating License Strategy (OLS) and Rationalisation Plan (RatPlan). Freight Strategy, Parking Policy and Integration of the RRT for Rustenburg into the Public Transport Section. Other component include Non Motorised Transport (NMT) and Universal Access.										Chapter based) . Input to all chapters (GAP Analysis, Socio Economic, Status Quo, TIR, Public Transport Plan, RatPlan, OLS, Freight, NMT, Needs Analysis). Write report and review consultants input to the report.			Incubation Programme (Trip)	
Feb 2014	Jun 2015	TIA - Train Station	Traffic / Transport Impact Assessment	TIA - GMA Samrand Station Traffic Impact Assessment	TIA for the proposed Gautrain Samrand Station. Analyse a network of 20 Intersections with PTV Vistro	South Africa	x		x	x		x			Project management & project team management. Client liaison & stakeholder consultation. Assist with 4 Step modelling in PTV Vistro. Guide junior engineers to analyse all aspects of the project. Review modelling (PTV Vistro) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	280 000	Parastatal	Gautrain Management Agency	GIBB (Pty) Ltd
Feb 2014	Jun 2014	TIA - Mixed land use	Traffic / Transport Impact Assessment	TIA - Kosher World Genhazel Shopping Centre	Transport Impact Assessment of a new mixed land use development Kosher World in Glen Hazel. IT consists of a Shopping Centre & Offices.	South Africa	x			x		x			Site visit. Client liaison. Project Management. Plan traffic surveys. Prepare Trip Generation, Trip Distribution, Mode Choice, Analysis, Trip (Route) Assignment and Base & Horizon Year analysis with SIDRA. Prepare recommendations and write report.	20 363	School	Peace Way Trading 5 (Pty) Ltd	GIBB (Pty) Ltd
Jan 2014	Mar 2014	TIA - Restaurant / Place of Entertainment	Traffic / Transport Impact Assessment	TIA - Highlands 51 of 359 - Die Hoewes - Fanie's Place	TIA - Die Hoewes TIA - Fanie's Place. Additional entertainment area added.	South Africa	x			x		x			Project management & project team management. Client liaison & stakeholder consultation. Assist with 4 Step modelling in SIDRA. Guide junior engineers to analyse all aspects of the project. Review modelling (SIDRA) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	45 000	Developer	Vintage Restaurant CC T/A Fanie's Place	GIBB (Pty) Ltd
Dec 2013	Jan 2014	Public Transport Investigation & Network Investigation	Traffic / Transport Impact Assessment	Destinata School Area: Midvaal	Destinata School area: Midvaal - Analyse existing traffic conditions & public transport. Investigate NMT movements and possible improvements to school drop-off area and access arrangements.	South Africa	x		x	x		x			Project management & project team management. Client liaison & stakeholder consultation. Assist with 4 Step modelling in SIDRA. Guide junior engineers to analyse all aspects of the project. Review modelling (SIDRA) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	65 000	Local Municipality	Midvaal Municipality	GIBB (Pty) Ltd
Dec 2013	Jul 2015	Transportation Emissions Study	Road & Rail (Commuter & Freight)	NDoT Energy Reduction Strategy	The study will produced a Transport Energy Consumption Study Report giving a clear and detailed indication of the extent to which road and rail transport energy is being consumed in South Africa. A Transportation Energy Reduction Strategy was	South Africa	x			x		x			Project manage a multi-disciplinary team of consultants to produce the energy reduction project. Technical input on transportation, data analysis along corridors. Review consultants project input. Wrote report. Present to client.	1 560 000	Provincial Government	Gauteng Department of Public Transport, Roads and Works (GDPTRW)	GIBB (Pty) Ltd

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							PM	TL	R	TS	TM	AD	S	CI					
					formulated together with an implementation with mitigating measures to reduce (GHG) Greenhouse Gas Emissions Mitigating interventions along the National Road & Rail Corridors.														
Sep 2013	May 2014	TIA - Shopping Centre	Traffic / Transport Impact Assessment	Melville Park Erf 973 Traffic Impact Assessment (TIA)	Melville Park Erf 973 Traffic Impact Assessment (TIA) for a new local shopping centre	South Africa	X		X	X		X			Project management & project team management. Client liaison & stakeholder consultation. Assist with 4 Step modelling in SIDRA. Guide junior engineers to analyse all aspects of the project. Review modelling (SIDRA) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present findings to client.	56 446	Developer	Citiq Property Developers	GIBB (Pty) Ltd
Sep 2013	Aug 2014	Temporary One Way / Drop-Off Assessment	Traffic / Transport Impact Assessment	TIA - Japari School Traffic Impact Assessment	Update to the existing Traffic Impact Assessment (TIA) for Japari School to include the temporary one way in front of the school and evaluate the drop-off facility.	South Africa	X	X		X		X			Site visit & observe traffic conditions. Project management. Client liaison & stakeholder consultation. Evaluate parking, pedestrian movements, drop-off facility and operations. Do intersection capacity analysis with SIDRA. Prepare recommendations & write report. Present to client. Attend a hearing and defend recommendations.	27 068	School	Japari School	GIBB (Pty) Ltd
Jul 2013	Oct 2013	Traffic / Pedestrian Safety	Access, Deliveries & Parkade	Key West Shopping Centre Access and Parkade	Evaluate the access and the Parkade ito safety for users and comment on road markings	South Africa	X			X		X			Evaluate construction drawings. Comment on road markings & signage to the shopping centre. Propose safe delivery vehicle movements. Evaluate the parking layout and comment on safety, circulation and pedestrian movements.	25 650	Developer	Acucap Properties Limited	GIBB (Pty) Ltd
Jun 2013	Dec 2013	ITS - Park & Ride	Feasibility Study	CoJ (Rapid Bus) Park and Ride Facilities	Feasibility Study of using existing parking facilities as alternative park-and-ride facilities for CoJ Rea Via, Rapid Bus commuters. Site investigations, including technology interface recommendations.	South Africa	X		X	X		X			Project management & project team management. Client liaison & stakeholder consultation. Guide junior engineers to analyse all aspects of the project, Site visits. Compile online questionnaire. Data analysis. Investigate potential interfaces to Card and Ticketing systems. Report writing & report review. Present finding to client.	365 000	Parastatal	Gautrain Management Agency for CoJ	GIBB (Pty) Ltd
Apr 2013	Sep 2013	Traffic Impact Assessment	Road Closure	Village Square Shopping Centre: Road Closure	Traffic Impact Study (TIS) of the Impact of the proposed road closure of Porges street Next to the Village Square Shopping Centre in Randfontein	South Africa	X	X		X		X			Project management & project team management. Client liaison & stakeholder consultation. Assist with Trip Generation, Trip Distribution, Mode Choice Analysis and Trip Distribution. Guide junior engineers to analyse all aspects of the project. Review modelling (SIDRA) and calculations. Propose / design mitigating measures (Signal Settings / Lanes etc.). Review drawings and report. Present finding to client.	71 494	Developer	Batley Partners	GIBB (Pty) Ltd
Apr 2013	Aug 2013	ITP - District Integrated Transport Plan	Comprehensive Integrated Transport plan	Tshwane CITP (Integrated Transport Plan)	5 Year Update of the Tshwane CITP (Integrated Transport Plan)	South Africa		X		X		X			Assist with planning for Infrastructure Surveys (Taxi & Bus). Analyse Rank Utilisation Surveys and prepare Transport Information Register (TIR) Tables. Origin-Destination per Rank, Rank and	3 460 000	Metro	City of Tshwane	GIBB (Pty) Ltd

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							PM	TL	R	TS	TM	AD	S	CI					
															lane utilisation, waiting times, etc. More than 80 ranks analysed				
Mar 2013	May 2013	TIA - Housing & School	Traffic / Transport Impact Assessment	TIA - Amandasig Housing & School Development	New Amandasig Housing & School Development	South Africa	X			X		X			Site visit. Client liaison. Project Management. Plan traffic surveys. Prepare Trip Generation, Trip Distribution, Mode Choice Analysis, Trip (Route) Assignment and Base & Horizon Year analysis with SIDRA. Prepare recommendations and write report.	60 000	Local Government	Department Of Local Government And Housing	GIBB (Pty) Ltd
Feb 2013	Aug 2013	ITS - Park & Ride	Feasibility Study	Gautrain (High Speed Train) Park and Ride Facilities	Feasibility Study of using existing parking facilities as alternative park-and-ride facilities for Gautrain Station commuters. Site investigations, including technology interface recommendations.	South Africa	X		X	X		X			Project management & project team management. Client liaison & stakeholder consultation. Guide junior engineers to analyse all aspects of the project, Site visits. Compile online questionnaire. Data analysis. Investigate potential interfaces to Card and Ticketing systems. Report writing & report review. Present finding to client.	530 000	Parastatal	Gautrain Management Agency	GIBB (Pty) Ltd
Jan 2013	Sep 2014	IRPTN / IPTN / BRT / LRT / SPTN	Feasibility Study, Business Plan, Implementation Plan	Rea Vaya Phase 1C Sustainability and Business Plan	Assessment of Bus Rapid Transit (BRT), LRT, SPTN and other alternatives for implementation on the Louis Botha Corridor and development of business plan for the selected alternative. Coordination and Management of Land Use, Economic and Transport Modelling Teams, and Liaison with Transport Authorities to collect and collate input data	South Africa			X	X		X			Identify Alternative Park and Ride sites in the City of Johannesburg that could feed the Rea Vaya system. Evaluate each potential site in terms of: Proximity to the Activity Centre Served (e.g. Johannesburg CBD, Sandton CBD or Rosebank CBD); Minimising Car Access Time; Minimising the Car to Public Transport Cost Ratio; Design for Multimodal Connections; Reducing the Implementation Cost and Financial Risks; and Various other criteria: Infrastructure capital costing, Travel time surveys, Stop location Assessment. Investigate ride sharing in the City.	5 600 000	Metro	City of Johannesburg (CoJ)	GIBB (Pty) Ltd
Jan 2013	Mar 2013	Site Traffic Assessment / Pedestrian Safety Assessment	Airport: Tank Farm / Fuel Depot	ORTAFS (Tank Farm and Fuel Depot) New Site Layout	Prepare safety recommendations to improve pedestrian and pump truck interface areas. Parking, emergency services and circulation improvements.	South Africa	X		X	X		X			Site visits. Project management & project team management. Client liaison & stakeholder consultation. Guide junior engineer to analyse all aspects of the project. Review calculations. Review Autoturn evaluation of vehicle and pedestrian movements. Propose access improvements for emergency vehicles. Review Report	150 000	Parastatal	Airport Company South Africa (ACSA)	GIBB (Pty) Ltd

PROJECTS

(Please print on A3 Paper)

ABBREVIATIONS

PM	Project Manager	TM	Team Member
TL	Task Leader	AD	Analysis / Design
R	Reviewer	S	Site Supervision
TS	Technical Specialist	CI	Commissioning Installation

Employer(s) : LAS (Pty) Ltd / Sturrock & Robson

Period : Jan 2000 – Dec 201

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							PM	TL	R	TS	TM	AD	S	CI					
Jan 2000	Dec 2012	Proposals	Tender Proposals & Quotes	Tender Proposals & Quotes	Prepared more than 400 tender proposals & quotes	Various	X			X		X			Prepared more than 400 tender proposals & quotes				
Aug 2012	Oct 2012	ITS (Freight) - Bulk Fuel Depot Solution	Storage & dispensing solution for bulk freight (Fuel)	Fuelfacs Beira	Upgrade Fuelfacs Beira Terminal. Control loading of bulk tanker trucks at Fuel Depot. Terminal Automation Solution. Prevents overloading of bulk freight vehicles	Mozambi que	X			X		X	X	X	Upgrade existing TAS (Terminal Automation System). Update SQL Server, Bulk Loading software and install customizations. Train users	240 000	Fuel Company	Fuel Company	LAS a division of Sturrock & Robson
Jul 2012	Jul 2012	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Website dashboards	ORTAFS - Opti-Web	ORTAFS - Opti-Web. Web reporting and dashboards for aviation ground control vehicles and aircraft refuelling.	South Africa	X			X		X		X	Install & configure Web Site and train users	40 000	Aviation Fuel Depot	ORTAFS Consortium	LAS a division of Sturrock & Robson
May 2012	Jun 2012	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing Control Systems. Consumption reporting	Mogalakwena MRM	Fuel consumption reporting and fuel dispensing authorisation for all mine vehicles. RFID tagging of vehicles and tank to nozzle security. Review database configuration for the Mogalakwena Mine.	South Africa		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	15 000	Mine	Anglo American Platinum	LAS a division of Sturrock & Robson
Feb 2012	Apr 2012	ITS - Bus Systems (Tracking, odometer, RFID, refuelling, maintenance)	Bus fuel consumption, emissions and maintenance reporting.	Poole Bus Services Server Install & Training	Remote install & configure Poole server with Opti-MIM software. Check RFID integration with vehicle and depot systems. On entering a red (go refuel) or a red light (go maintenance) is displayed. Interface developed to vehicle tracking / odometer reader , RFID (PTS / Petro Zone) and Refuelling (Hectronic) system.	UK		X	X	X		X		X	Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	25 000	Bus Operator	Poole Bus Services (Yellow Busses)	LAS a division of Sturrock & Robson
Feb 2012	Apr 2012	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control	Wilkie Creek Mine	Configure the Opti-MIM Mine Vehicle Management System. (Vehicle information, RFID Tags,	Australia		X		X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and	30 000	Mine	Peabody Energy	LAS a division of

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							PM	TL	R	TS	TM	AD	S	CI					
			Systems. Consumption reporting		Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, Wi-Fi, network etc.)										configuration files. Check communication to field instruments and vehicle setup parameters.				Sturrock & Robson
Jan 2012	Dec 2012	Health & Safety (Store Master) Application	PPE Management System	MCS - V2	Health & Safety (Store Master) Application for dispensing PPE to workers. Contains a Point of Sale application as well as certifications management and PPE replacement management modules	South Africa	X		X	X					Review development done by senior engineer of the Store Master Application	250 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson
Jan 2012	Dec 2012	Vehicle, Bus, Truck & Aircraft Solution (Tracking, Monitoring, Fuel Consumption, Inventory Management)	Software Development	Opti-MIM Development	Opti-Web Dashboards & Opti-MIM Version 2 Updates - in-house developed software for Vehicle Fleets, Busses, Trucks, Mining, Aviation and Petro Chemical Terminals. Developed in Delphi, multi treaded modular application running on a SQL Server database. Develop modules: See full functional specification for all the modules developed	South Africa	X			X		X		X	Perform Technical Executive Functions for managing the Hardware & Software development team. (+/- 12 employees) Project management & software development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	2 600 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson
Jan 2012	Dec 2012	Hardware / Product Development	Electronic Components / Solutions	Hardware Development	Hardware Development (MineTrol). Controller to control fuel dispensing for mine operations	South Africa	X			X					Management of Hardware Development / Embedded Development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	550 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson
Nov 2011	Nov 2011	ITS - Bus Systems (Tracking, odometer, RFID, refuelling, maintenance)	Bus fuel consumption, emissions, and maintenance reporting.	Go South Coast Busses	Remote install & configure Go South Coast Bus server with Opti-MIM software. Check RFID integration with vehicle and depot systems. On entering a red (go refuel) or a red light (go maintenance) is displayed. Interface developed to vehicle tracking / odometer reader , RFID (PTS / Petro Zone) and Refuelling (Hectronic) system. Go South Coast operates a fleet of over 850 buses across Dorset, Wiltshire, Hampshire and the Isle of Wight.	UK	X		X	X		X		X	Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	40 000	Bus Operator	Go South Coast	LAS a division of Sturrock & Robson
Nov 2011	Nov 2011	Aviation - Aircraft and ground control vehicles refuelling &	Bulk tanker truck loading	ACSA Cape Town - Loading	Remote install & configure Bulk Fuel dispenser solution with Opti-MIM software for ACSA Cape Town operated by BP	South Africa	X		X	X		X		X	Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	35 000	Fuel Company	BP	LAS a division of Sturrock & Robson

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							PM	TL	R	TS	TM	AD	S	CI					
		Tank level monitoring																	
Oct 2011	Mar 2012	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	BMA Mine Australia	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, Wi-Fi, network etc.)	Australia		X	X	X		X		X	Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	25 000	Mine	BMA Australia	LAS a division of Sturrock & Robson
Sep 2011	Dec 2011	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Damang Mine, Ghana	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, Wi-Fi, network etc.)	Ghana		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	20 000	Mine	Goldfields	LAS a division of Sturrock & Robson
Jul 2011	Dec 2011	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Matla Mine, Exxaro	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, Wi-Fi, network etc.)	South Africa		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	20 000	Mine	Exxaro	LAS a division of Sturrock & Robson
Jul 2011	Jul 2011	ITS - Bus Systems (Tracking, odometer, RFID, refuelling, maintenance)	Bus fuel consumption, emissions and maintenance reporting.	Isle of Whight (IOW)	Remote install & configure IOW Bus server with Opti-MIM software. Check RFID integration with vehicle and depot systems. On entering a red (go refuel) or a red light (go maintenance) is displayed. Interface developed to vehicle tracking / odometer reader , RFID (PTS / Petro Zone) and Refuelling (Hectronic) system.	UK		X	X	X		X		X	Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	25 000	Bus Operator	IOW	LAS a division of Sturrock & Robson
Jun 2011	Sep 2011	ITS (Freight) - Bulk Fuel Depot Solution	Storage & dispensing solution for bulk freight (Fuel)	Shall Fuelfacs Upgrade (NAM, MAU, BOT)	Upgrade existing software and software customisations at the Namibia, Mauritius and Botswana depots. Prevents overloading of bulk freight vehicles	South Africa		X		X		X		X	Software development, remote installation on servers of all updates.	80 000	Fuel Company	Shell	LAS a division of Sturrock & Robson
Mar 2011	Apr 2011	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Gainsville Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, Wi-Fi, network etc.)	USA		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	18 000	Mine	Gainesville, USA	LAS a division of Sturrock & Robson
Jan 2011	Dec 2011	Vehicle, Bus, Truck & Aircraft Solution	Software Development	Opti-MIM Development	Opti-MIM Version 2.0 - in-house developed software for Vehicle Fleets, Busses, Trucks, Mining,	South Africa	X			X		X		X	Perform Technical Executive Functions for managing the Hardware & Software development team. (+/- 12 employees) Project management &	2 400 000	In-house	LAS a division of Sturrock & Robson	LAS a division of

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							PM	TL	R	TS	TM	AD	S	CI					
		(Tracking, Monitoring, Fuel Consumption, Inventory Management)			Aviation and Petro Chemical Terminals. Developed in Delphi, multi treaded modular application running on a SQL Server database. Develop modules: See full functional specification for all the modules developed										software development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.				Sturrock & Robson
Jan 2011	Dec 2011	Health & Safety (Store Master) Application	PPE Management System	MCS - V1.2	Health & Safety (Store Master) Application for dispensing PPE to workers. Contains a Point of Sale application as well as certifications management and PPE replacement management modules	South Africa	X		X	X					Review development done by senior engineer of the Store Master Application	240 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson
Jan 2011	Dec 2011	Hardware / Product Development	Electronic Components / Solutions	Hardware Development	Hardware Development (Petro Zone & PTS). PTS (RFID) solutions for fuel product security in bulk tanker trucks and integration to bus systems with PetroZone.	South Africa	X			X					Management of Hardware Development / Embedded Development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	500 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson
Jun 2010	Jul 2010	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Airport: Aircraft refuelling & ground support vehicles	ORTAFS - Opti-MIM Upgrade	ORTAFS - Opti-MIM Upgrade. Upgrade the existing software to the latest version.	South Africa	X			X		X	X	X	Install the latest version of Opti-MIM. Update site configuration. Test communication to vehicles and tanks.	450 000	Aviation Fuel Depot	ORTAFS Consortium	LAS a division of Sturrock & Robson
Mar 2010	Apr 2010	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	PCM (Palabora Mining Company) Upgrade	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, Wi-Fi, network etc.)	South Africa		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	18 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson
Jan 2010	Dec 2010	Hardware / Product Development	Electronic Components / Solutions	Hardware Development	Hardware Development (Various Truck and Vehicle Systems)	South Africa	X			X					Management of Hardware Development / Embedded Development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	450 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson
Sep 2009	Sep 2009	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems.	Konkola Copper Mine (KCM)	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products,	Zambia		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	20 000	Mine	Konkola Copper Mine (KCM)	LAS a division of Sturrock & Robson

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							PM	TL	R	TS	TM	AD	S	CI					
			Consumption reporting		communication instruments (modems, wifi, network etc.)														
Aug 2009	Dec 2010	Health & Safety (Store Master) Application	PPE Management System	MCS - V1	Health & Safety (Store Master) Application for dispensing PPE to workers. Contains a Point of Sale application as well as certifications management and PPE replacement management modules	South Africa	X		X	X					Review development done by senior engineer of the Store Master Application	180 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson
Jul 2009	Jul 2009	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	North Mara Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	Tanzania		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	18 000	Mine	North Mara Mine	LAS a division of Sturrock & Robson
Mar 2009	Mar 2009	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Atlantic Aviation - Sunvalley	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	20 000	Aviation: FBO (Fixed Based Operator)	Atlantic Aviation - Sun valley	LAS a division of Sturrock & Robson
Feb 2009	Mar 2009	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Extrata Tweefontein Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	South Africa		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	18 000	Mine	Extrata Tweefontein Mine	LAS a division of Sturrock & Robson
Jan 2009	Dec 2010	Vehicle, Bus, Truck & Aircraft Solution (Tracking, Monitoring, Fuel Consumption, Inventory Management)	Software Development	Opti-MIM Development	Opti-MIM Version 1.8 - in-house developed software for Vehicle Fleets, Busses, Trucks, Mining, Aviation and Petro Chemical Terminals. Developed in Delphi, multi treaded modular application running on a SQL Server database. Develop modules: See full functional specification for all the modules developed	South Africa	X			X		X		X	Project management & software development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	2 700 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson
Jan 2009	Dec 2009	Hardware / Product Development	Electronic Components / Solutions	Hardware Development	Hardware Development (Various Truck and Vehicle Systems)	South Africa	X			X					Management of Hardware Development / Embedded Development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	420 000	In-house	LAS a division of Sturrock & Robson	LAS a division of Sturrock & Robson

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Nov 2008	Nov 2008	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Booyens Mine, Eland Platinum Mine, Richards Bay Minerals	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	South Africa		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	+/- 20 000 per site	Mine	Various	LAS a division of Sturrock & Robson
Oct 2008	Oct 2008	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Moolmans - Phoenix Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	Botswana		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	18 000	Mine	Moolmans - Phoenix Mine	LAS a division of Sturrock & Robson
Oct 2008	Oct 2008	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Khumani Mine, Matla Colliery, NCM (New Clydesdale), Arnot Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	South Africa		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	+/- 20 000 per site	Mine	Various	LAS a division of Sturrock & Robson
Sep 2008	Sep 2008	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Orapa Mine, Letlhakane Mine, Damntshaa Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	Botswana		X		X		X		X	Configure the software system (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.), SAT, FAT. Test communication to field instruments	+/- 25 000 per site	Mine	Orapa Mine, Letlhakane Mine, Damntshaa Mine	LAS a division of Sturrock & Robson
Sep 2008	Sep 2008	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	NBC (North Block Complex) Glisa, Strathae, Eerstelingfontein, Belfast)	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	South Africa		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	18 000	Mine	NBC (North Block Complex) Glisa, Strathae, Eerstelingfontein, Belfast)	LAS a division of Sturrock & Robson
Sep 2008	Sep 2008	ITS (Freight) - Bulk Fuel Depot Solution	Storage & dispensing solution for bulk freight (Fuel)	Sasol MIBK	Install and configure Opti-MIM software for this Bulk Fuel Terminal at MIBK Sasolburg. Prevents overloading of bulk freight vehicles	South Africa	X					X	X	X	Install and configure Opti-MIM software for this Bulk Fuel Terminal at MIBK Sasolburg	70 000	Fuel Company	Sasol MIBK	LAS a division of Sturrock & Robson
Sep 2008	Sep 2008	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Lumwana Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	Zambia		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	20 000	Mine	Lumwana Mine	LAS a division of Sturrock & Robson

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							PM	TL	R	TS	TM	AD	S	CI					
Aug 2008	Aug 2008	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Exxaro Leeuwpan Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	South Africa		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	16 000	Mine	Exxaro Leeuwpan Mine	LAS a division of Sturrock & Robson
Apr 2008	Jun 2008	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Landmark Washington Dulles, Atlantic Aviation-Aspen, Tampa Jet Centre	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	+/- 25 000 per site	Aviation: FBO (Fixed Based Operator)	Landmark Washington Dulles, Atlantic Aviation-Aspen, Tampa Jet Centre	LAS a division of Sturrock & Robson
Mar 2008	Mar 2008	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Venitia Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	South Africa		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	16 000	Mine	Venitia Mine	LAS a division of Sturrock & Robson
Jan 2008	Feb 2008	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Pilot Travel Centres- Knoxville, Atlantic Aviation-Las Vegas	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	+/- 25 000 per site	Aviation: FBO (Fixed Based Operator)	Pilot Travel Centres- Knoxville, Atlantic Aviation-Las Vegas	LAS a division of Sturrock & Robson
Oct 2007	Dec 2007	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Air BP- Cleveland, Miracle Strip Aviation, University Air Centre	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	+/- 22 000 per site	Aviation: FBO (Fixed Based Operator)	Air BP- Cleveland, Miracle Strip Aviation, University Air Centre	LAS a division of Sturrock & Robson
Jun 2007	Aug 2007	ITS (Freight) - Bulk Fuel Depot Solution	Storage & dispensing solution for bulk freight (Fuel)	Sasol Nitro / Air Products	Install and configure Opti-MIM software for this Bulk Fuel Terminal at MIBK Sasolburg. Prevents overloading of bulk freight vehicles	South Africa	X	X		X		X		X	Install and configure Opti-MIM software for this Bulk Fuel Terminal with Tanks	93 758	Fuel Company	Sasol Nitro / Air Products	LAS a division of Sturrock & Robson
Mar 2007	Apr 2007	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Stansted Airport / Aires	Very large airport in the UK. Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	UK	X	X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles and tanks.	81 755	Airport	Stansted Airport / Aires	LAS a division of Sturrock & Robson

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							PM	TL	R	TS	TM	AD	S	CI					
Jan 2007	May 2007	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Encore-Addison Aviation, Gulfstream-Savannah Aviation	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	+/- 22 000 per site	Aviation: FBO (Fixed Based Operator)	Encore-Addison Aviation, Gulfstream-Savannah Aviation	LAS a division of Sturrock & Robson
Jan 2007	Jan 2007	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Stansted Support	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	80 000	Aviation: FBO (Fixed Based Operator)	Stansted Support	LAS a division of Sturrock & Robson
Dec 2006	Dec 2006	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Moolmans - Mowana Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	Botswana		X		X		X		X	Configure the software system (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.), SAT, FAT. Test communication to field instruments	25 000	Mine	Moolmans - Mowana Mine	LAS (Pty) Ltd
Nov 2006	Nov 2006	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Caballo Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Configure the software system (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.), SAT, FAT. Test communication to field instruments	26 000	Mine	Caballo Mine	LAS (Pty) Ltd
Feb 2006	Oct 2006	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Million Air - Houston, Texas A&M Aviation, Net Jet Aviation	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	+/- 20 000 per site	Aviation: FBO (Fixed Based Operator)	Million Air - Houston, Texas A&M Aviation, Net Jet Aviation	LAS (Pty) Ltd
Jan 2006	Dec 2008	Vehicle, Bus, Truck & Aircraft Solution (Tracking, Monitoring, Fuel Consumption, Inventory Management)	Software Development	Opti-MIM Development	Opti-MIM Version 1.6 - in-house developed software for Vehicle Fleets, Busses, Trucks, Mining, Aviation and Petro Chemical Terminals. Developed in Delphi, multi treaded modular application running on a SQL Server database. Develop modules: See full functional specification for all the modules developed	South Africa	X			X		X		X	Project management & software development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	3 200 000	In-house	LAS (Pty) Ltd	LAS (Pty) Ltd

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							PM	TL	R	TS	TM	AD	S	CI					
Jan 2006	Feb 2006	Vehicle Systems & Tank Monitoring	Mine Fuel / Lube Dispensing & Control Systems. Consumption reporting	Shell Ghana Ahafo Mine	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	Ghana		X		X		X		X	Configure the software system (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.), SAT, FAT. Test communication to field instruments	30 000	Mine	Shell Ghana Ahafo Mine	LAS (Pty) Ltd
Jan 2006	Jan 2006	ITS (Freight) - Bulk Fuel Depot Solution	Storage & dispensing solution for bulk freight (Fuel)	Lagos Nigeria (Energem) - Bulk Depot	Install and configure Opti-MIM software for this Bulk Fuel Terminal in Nigeria. Prevents overloading of bulk freight vehicles.	Nigeria		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	216 958	Fuel Company	Lagos Nigeria (Energem)	LAS (Pty) Ltd
Oct 2005	Oct 2005	ITS (Freight) - Bulk Fuel Depot Solution	Storage & dispensing solution for bulk freight (Fuel)	Benton Oil Bulk Depot	Install and configure Opti-MIM software for this Bulk Fuel Terminal. Prevents overloading of bulk freight vehicles.	USA		X	X	X		X			Review site setup done in Opti-MIM software by inspecting the SQL Server database and configuration files. Check communication to field instruments and vehicle setup parameters.	30 372	Fuel Company	Benton Oil Bulk Depot	LAS (Pty) Ltd
Jul 2005	Sep 2005	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Sun Air Jets, March Cargo Ports, Albany Airport	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	+/- 20 000 per site	Aviation: FBO (Fixed Based Operator)	Sun Air Jets, March Cargo Ports, Albany Airport	LAS (Pty) Ltd
Jul 2005	Sep 2005	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Airport: Aircraft refuelling & ground support vehicles	ORTAFS	ORTAFS - Opti-MIM Upgrade. Upgrade the existing software to the latest version.		X			X		X		X	Upgrade the RIMS2000 system to Opti-MIM. Configure system, test communication to vehicles and tanks. Link the tank gauging to the existing SCADA system. Link the vehicle scheduling system to the FIDS system.	850 000	Aviation Fuel Depot	ORTAFS Consortium	LAS (Pty) Ltd
May 2005	May 2005	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Miami Executive Aviation	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X	X	X	Onsite installation , configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	60 000	Aviation: FBO (Fixed Based Operator)	Miami Executive Aviation	LAS (Pty) Ltd
Apr 2005	Apr 2005	Aviation - Aircraft and ground control vehicles refuelling & Tank level monitoring	Aircraft Refuelling & Tank Inventory Management	Jackson Hole Aviation	Configure the Opti-MIM Aircraft Fuel Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	USA		X		X		X		X	Assist installer to install, configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers.	15 000	Aviation: FBO (Fixed Based Operator)	Jackson Hole Aviation	LAS (Pty) Ltd
Jan 2004	Feb 2004	ITS (Freight) - Bulk Fuel Depot Solution	Storage & dispensing solution for bulk freight (Fuel)	Sasol One Road Loading	Upgrade Existing Site. Install and configure Opti-MIM software for this Bulk Fuel Terminal at MIBK	South Africa	X	X		X		X		X	Install and configure Opti-MIM software for this Bulk Fuel Terminal at Sasol One Sasolburg	47 500	Fuel Company	SASOL	LAS (Pty) Ltd

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							PM	TL	R	TS	TM	AD	S	CI					
					Sasolburg. Prevents overloading of bulk freight vehicles														
Jan 2004	Dec 2005	Vehicle, Bus, Truck & Aircraft Solution (Tracking, Monitoring, Fuel Consumption, Inventory Management)	Software Development	Opti-MIM Development	Opti-MIM Version 1.4 - in-house developed software for Vehicle Fleets, Busses, Trucks, Mining, Aviation and Petro Chemical Terminals. Developed in Delphi, multi treaded modular application running on a SQL Server database. Develop modules: Vehicle refuelling and bulk pipeline transfers	South Africa	X			X		X		X	Project management & software development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	1 500 000	In-house	LAS (Pty) Ltd	LAS (Pty) Ltd
Nov 2003	Dec 2003	Transport Authority: Vehicle Systems & Tank Monitoring	Fuel / Lube Dispensing & Control Systems. Consumption reporting	Central Transport Organisation - Swaziland	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	Swaziland	X			X		X	X	X	Onsite installation and configuration. Assist installer to install, configure and test the software and interfaces to Swaziland construction and government vehicles.	110 000	Transport Authority	Swaziland CTA	LAS (Pty) Ltd
Sep 2003	Nov 2003	Transport Authority: Vehicle Systems & Tank Monitoring	Fuel / Lube Dispensing & Control Systems. Consumption reporting	CTO Namibia - Windhoek	Configure the Opti-MIM Mine Vehicle Management System (Vehicle information, RFID Tags, Tank Storage, Flow Controllers, Flow meters, Products, communication instruments (modems, wifi, network etc.)	Namibia	X		X			X			Assist installer to install, configure and test the software and interfaces to Swaziland construction and government vehicles.	220 000	Transport Authority	CTO Namibia - Windhoek	LAS (Pty) Ltd
Jul 2003	Sep 2003	ITS (Freight) - Bulk Fuel Depot Solution	Storage & dispensing solution for bulk freight (Fuel)	Futilla Terminal	Install and configure Opti-MIM software for this Bulk Fuel Terminal. Prevents overloading of bulk freight vehicles.	Angola - Cabinda	X			X		X	X	X	Onsite install and configure Opti-MIM software for this Bulk Fuel Terminal in Angola. Communications wiring & communications testing. Setup of field instrumentation and flow meters. User training.	180 000	Fuel Company	Chevron	LAS (Pty) Ltd
Jan 2003	Dec 2004	Vehicle, Bus, Truck & Aircraft Solution (Tracking, Monitoring, Fuel Consumption, Inventory Management)	Software Development	Opti-MIM Development	Opti-MIM Version 1.2 - in-house developed software for Vehicle Fleets, Busses, Trucks, Mining, Aviation and Petro Chemical Terminals. Developed in Delphi, multi treaded modular application running on a SQL Server database. Develop modules: Vehicle dispensing to aircraft for aircraft refuelling.	South Africa	X			X		X		X	Project management & software development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	1 200 000	In-house	LAS (Pty) Ltd	LAS (Pty) Ltd
Jun 2002	Jul 2002	Aviation - Aircraft Refuelling	Aviation - Aircraft Refuelling	ORTAFS - EDIS	ORTAFS - EDIS, software for vehicle scheduling for aircraft refuelling	South Africa		X		X		X	X	X	Onsite installation , configure and test the software and interfaces to ground support vehicles, aircraft refuellers, pump trucks and bulk refuellers. Including development of the software.	240 000	Aviation Fuel Depot	ORTAFS Consortium	LAS (Pty) Ltd

Project Start Date	Project End Date	Project Type	Sub Types	Project Name	Project Description	Country	Role in Project / Position					Specific Tasks			Duties / Activities Performed	Fee Value / Est. Fee Value (Excl. VAT)	Client Type	Client / Project Owner	My Employer
							PM	TL	R	TS	TM	AD	S	CI					
May 2002	Jun 2002	ITS (Freight) - Solution Development & Site Work	Freight: Interface to Weighbridge	Sasol One Weighbridge Interface	Sasol One, Sasolburg, interfacing to weighbridge to determine weight of product loaded before it proceeds out of the terminal. This is to avoid overloading of the vehicle.	South Africa		X		X	X	X		X	Develop weighbridge interface in Borland Delphi. FAT, SAT, Operator Training, Implementation, Monitoring, Support.	224 000	Fuel Company	SASOL	LAS (Pty) Ltd
Mar 2002	Apr 2002	ICT - Site Implementation	ICT, Software, Hardware	Sasol One, Sasolburg Install RIMS2000	Install Rims 2000 at SASOL One and link to chemical loading flow controllers	South Africa	X	X		X		X		X	Complete FAT, SAT, Install Software, Install ICT components (Cables & modems, communications panel). Complete user training, monitor site, on-site and remote support	768 000	Fuel Company	SASOL	LAS (Pty) Ltd
Oct 2001	Feb 2002	Freight Loading / Off-Loading (Fuel & Chemicals) and Inventory Management Solution Development	Software Development	RIMS 2000: Upgrade for bulk mass loading	Add an interface to the bulk mass loading flow controllers (Contrec 1010) to enable bulk fuel tanker trucks to load at the distribution terminal	South Africa	X	X		X		X			Update database to include mass loading tables. Develop interface to flow controllers. Develop reports. Do FAT.	204 800	Internal Development	LAS (Pty) Ltd	LAS (Pty) Ltd
Jul 2001	Sep 2001	ITS (Freight) - Solution Development & Site Work	Freight: Interface to Weighbridge	Sasol Secunda Weighbridge Interface	Sasol Secunda interfacing to weighbridge to determine weight of product loaded before it proceeds out of the terminal. This is to avoid overloading of the vehicle.	South Africa		X		X		X		X	Develop weighbridge interface in Borland Delphi. FAT, SAT, Operator Training, Implementation, Monitoring, Support.	128 000	Fuel Company	SASOL	LAS (Pty) Ltd
Mar 2001	Dec 2002	Vehicle, Bus, Truck & Aircraft Solution (Tracking, Monitoring, Fuel Consumption, Inventory Management)	Software Development	Opti-MIM Development	Opti-MIM Version 1.0 - in-house developed software for Vehicle Fleets, Busses, Trucks, Mining, Aviation and Petro Chemical Terminals. Developed in Delphi, multi treaded modular application running on a SQL Server database. Develop modules: Bulk vehicle loading at depot and Tank level monitoring.	South Africa	X			X		X		X	Project management & software development. Develop Functional Requirements, Use Cases. Design software, Develop, Unit Testing, Functional Testing, FAT (Factory Acceptance Testing), SAT (Site Acceptance Testing), Site Installation, Monitor, Support.	800 000	In-house	LAS (Pty) Ltd	LAS (Pty) Ltd
Mar 2001	Jun 2001	Freight Loading / Off-Loading (Fuel & Chemicals) and Inventory Management Solution Development	Software Development	RIMS 2000: Upgrade database to Interbase	Completely upgrade RIMS 2000 to work with an Interbase database	South Africa	X	X		X		X			Develop Interbase database, Port existing data to new database. Update Rims user interface and field instrument interfaces.	204 800	Internal Development	LAS (Pty) Ltd	LAS (Pty) Ltd
Jan 2001	Feb 2001	ICT - Site Implementation	ICT, Software, Hardware	OR Tambo RIMS 2000	Install Rims 2000 at OR Tambo and link to Tank Gauges to monitor inventory levels of petroleum products	South Africa	X	X		X		X		X	Complete FAT, SAT, Install Software, Install ICT components (Cables & modems, communications panel). Complete user training, monitor site, on-site and remote support	256 000	Fuel Consortium	ORTAFS	LAS (Pty) Ltd

Project Start Date	Project End Date	Project Type	Sub Types	Project Name	Project Description	Country	Role in Project / Position					Specific Tasks			Duties / Activities Performed	Fee Value / Est. Fee Value (Excl. VAT)	Client Type	Client / Project Owner	My Employer
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Dec 2000	Feb 2001	ITS (Freight) - Bulk Fuel Depot Solution	Storage & dispensing solution for bulk freight (Fuel)	KPC - Eldoret, Nakuru, and Kisumu, Nairobi	Install and configure Fuelfacs software for 3 bulk terminals and a HQ in Kenya. The system prevents overloading of bulk freight vehicles.	Kenya	X			X		X	X	X	Install and configure Fuelfacs software. Install communication cables and test communications. User training.	240 000	Fuel Company	Kenya Pipeline Company	LAS (Pty) Ltd
Mar 2000	Dec 2000	Inventory Management: Tank Gauging & Flow Meters	Software Development	RIMS 2000: Petroleum Inventory Management System	Inventory management of petroleum products. Interfaces to field instruments via communication cables; RS 485	South Africa	X	X		X		X			Develop database, User Interface and interfaces to field instruments. Develop reports. Borland Delphi	576 000	Internal Development	LAS (Pty) Ltd	LAS (Pty) Ltd
Jan 2000	Mar 2000	ITS (Freight) - Solution Development & Site Work	Freight: Interface to Weighbridge	BP Island view Weighbridge Interface	BP Island View: off-loading of metal and other products at the terminal. Interfacing to financial system (JDEdwards) and the weighbridge.	South Africa		X		X		X			Develop weighbridge interface in Borland Delphi. FAT, SAT, Operator Training, Implementation, Monitoring, Support.	48 000	Fuel Company	BP	LAS (Pty) Ltd

PROJECTS

(Please print on A3 Paper)

ABBREVIATIONS

PM	Project Manager	TM	Team Member
TL	Task Leader	AD	Analysis / Design
R	Reviewer	S	Site Supervision
TS	Technical Specialist	CI	Commissioning Installation

Employer(s) : GIBB Africa / Arcus GIBB

Period : Jan 1998 – Dec 1999

Project Start Date	Project End Date	Project Type	Sub Types	Project Name	Project Description	Country	Role in Project / Position					Specific Tasks			Duties / Activities Performed	Fee Value / Est. Fee Value (Excl. VAT)	Client Type	Client / Project Owner	My Employer
							PM	TL	R	TS	TM	AD	S	CI					
Oct 1999	Dec 1999	Commuter Rail	Asset management on GIS system	SARCC restructuring Project.	SARCC restructuring; obtain assets per corridor and model it on GIS.	South Africa		X				X			Created an asset register in a MS Access database. Visualised the assets in Autodesk World GIS.	50 000	Parastatal	SARCC	Arcus GIBB / GIBB Africa
Sep 1999	Oct 1999	Freight Rail	Corridor / Commodity Revenue Modelling	Linkrail corridor commodity revenue modelling	Linkrail commodity revenue modelling (for concessionaire)	South Africa		X				X			Created a database of rail links, OD's, commodities, trains etc. Modelled commodities on corridors with sensitivity analysis and growth scenarios. Created an application in Delphi to model the revenue. Compiled a revenue model per corridor per commodity. Compiled technical modelling input for report.	60 000	Parastatal	SARCC	Arcus GIBB / GIBB Africa
Jul 1999	Sep 1999	EDZ (Economic Development Zone - Bulk Services Report & Funding Proposal	Master Planning, Costing & Feasibility	City Deep EDZ : Bulk services planning & feasibility study	City Deep EDZ : Bulk services planning & feasibility study	South Africa		X				X			Bulk conceptual layout planning for Sewerage, Water reticulation, Stormwater & Roads for the proposed development. Prepare costing for the design and installation of the services. Prepare a bulk services report as input to the feasibility study	45 000	Metro	City of Johannesburg	Arcus GIBB / GIBB Africa
Jun 1999	Jul 1999	Bulk Infrastructure Services Report & Funding Proposal	Master Planning, Costing & Feasibility	Mauritius Housing Development: Bulk services planning & feasibility study	Mauritius Housing Development : Bulk services planning & feasibility study	Mauritiu s		X				X			Bulk conceptual layout planning for Sewerage, Water reticulation, Stormwater & Roads for the proposed development. Prepare costing for the design and installation of the services. Prepare a bulk services report as input to the feasibility study	30 000	Private Developer	Private Developer	Arcus GIBB / GIBB Africa
May 1999	Jun 1999	Bulk Infrastructure Services Report & Funding Proposal	Master Planning, Costing & Funding	Zuurbult / Doornkop Development: Bulk services planning & funding	Zuurbult / Doornkop Development : Bulk services planning & funding	South Africa		X				X			Bulk conceptual layout planning for Sewerage, Water reticulation, Stormwater & Roads for the proposed development. Prepare costing for the design and installation of the services. Prepare a bulk services report to obtain Consolidated Infrastructure Programme (CMIP) funding for the development.	25 000	Private Developer	Private Developer	Arcus GIBB / GIBB Africa
May 1999	May 1999	Intersection Improvements	ICA (Intersection Capacity Analysis)	Modder B / Daveyton Intersection Improvements	Investigate the intersection improvements require for the intersection to operate at an acceptable level of service and propose layout changes.	South Africa		X				X			Site visit & observe traffic conditions. Analyse traffic count. Enter layouts and trips into SIDRA for analysis. Analyse current and horizon year traffic. Propose mitigating measures (New infrastructure / lanes, new signal settings). Prepare Signal Plans & Write report	15 000	Metro	City of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa

Project Start Date	Project End Date	Project Type	Sub Types	Project Name	Project Description	Country	Role in Project / Position					Specific Tasks			Duties / Activities Performed	Fee Value / Est. Fee Value (Excl. VAT)	Client Type	Client / Project Owner	My Employer
							PM	TL	R	TS	TM	AD	S	CI					
Apr 1999	Apr 1999	Taxi Rank - OD Surveys & Rank Utilisation	Rank Utilisation & OD Patterns	Brakpan East (Industrial) Taxi Rank OD - Surveys	Brakpan East (Industrial) Taxi Rank OD - Surveys	South Africa		X				X			Plan surveys, collect and enter data into database. Create a MS Access database. Perform queries to determine utilisation and OD patterns. Write report.	28 000	Metro	City of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa
Apr 1999	Apr 1999	Taxi Rank - OD Surveys & Rank Utilisation	Rank Utilisation & OD Patterns	Elandsfontein Taxi Rank OD - Surveys	Elandsfontein Taxi Rank OD - Surveys	South Africa		X				X			Plan surveys, collect and enter data into database. Create a MS Access database. Perform queries to determine utilisation and OD patterns. Write report.	22 000	Metro	City of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa
Mar 1999	Mar 1999	Taxi Rank - OD Surveys & Rank Utilisation	Rank Utilisation & OD Patterns	Dunswart Taxi Rank OD - Surveys	Dunswart Taxi Rank OD - Surveys	South Africa		X				X			Plan surveys, collect and enter data into database. Create a MS Access database. Perform queries to determine utilisation and OD patterns. Write report.	26 000	Metro	City of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa
Feb 1999	Feb 1999	Taxi Rank - OD Surveys & Rank Utilisation	Rank Utilisation & OD Patterns	Nigel Taxi Rank OD - Survey	Nigel Taxi Rank OD - Surveys	South Africa					X	X			Plan surveys, collect and enter data into database. Create a MS Access database. Perform queries to determine utilisation and OD patterns. Write report.	22 000	Metro	City of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa
Jan 1999	Feb 1999	Taxi Rank - OD Surveys & Rank Utilisation	Rank Utilisation & OD Patterns	Brakpan Taxi Rank OD - Surveys	Brakpan Taxi Rank OD - Surveys	South Africa					X	X			Plan surveys, collect and enter data into database. Create a MS Access database. Perform queries to determine utilisation and OD patterns. Write report.	25 000	Metro	City of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa
Nov 1998	Dec 1998	Road Signs / Markings	Design, Drawings	Hatherley Dumping Site: Road Signs and road markings	Hatherley Dumping Site improve traffic flow in and out of the facility.	South Africa		X				X			Site visit. Design access to and from the facility. Prepare access drawings including road signs and road markings.	20 000	Metro	City of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa
Nov 1998	Dec 1998	Stormwater - Flooding	Design, Drawings	Stormwater – Rand Stadium	Stormwater – Rand Stadium, reduce flooding in the area.	South Africa		X				X			Site visit, obtain DTM from surveyor. Calculate run-off, do detailed hydraulic calculations, design & size pipe. Create drawings in CAD for approval.	18 000	Metro	City Of Johannesburg (CoJ)	Arcus GIBB / GIBB Africa
Oct 1998	Nov 1998	Roads: Geometric & Pavement Design + Stormwater	Design, Drawings	Blaauwbank Development: Roads & Stormwater	Blaauwbank Development Geometric and Pavement Design of Gravel Roads & including Stormwater Design	South Africa		X				X			Obtain DTM from surveyor. Gravel road design with RoadMaker. Stormwater design. Prepare drawings. Calculate costing and prepare services report input.	50 000	Various	Various	Arcus GIBB / GIBB Africa
Sep 1998	Sep 1998	Bulk Services Report & Funding Proposal	Master Planning, Costing & Funding	Durban Roodepoort Deep Township Development: Bulk services planning & funding	Durban Roodepoort Deep Township Development: Bulk services planning & funding	South Africa					X	X			Bulk conceptual layout planning for Sewerage, Water reticulation, Stormwater & Roads for the proposed development. Prepare costing for the design and installation of the services. Prepare a bulk services report to obtain Consolidated Infrastructure Programme (CMIP) funding for the development.	20 000	Metro	City Of Johannesburg (CoJ)	Arcus GIBB / GIBB Africa
Sep 1998	Sep 1998	Bulk Services Report & Funding Proposal	Master Planning, Costing & Funding	Leratong Township Development: Bulk services planning & funding	Leratong Township Development: Bulk services planning & funding	South Africa					X	X			Bulk conceptual layout planning for Sewerage, Water reticulation, Stormwater & Roads for the proposed development. Prepare costing for the design and installation of the services. Prepare a bulk services report to obtain Consolidated Infrastructure Programme (CMIP) funding for the development.	21 000	Metro	City Of Johannesburg (CoJ)	Arcus GIBB / GIBB Africa

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Aug 1998	Sep 1998	Parking Study	Utilisation / Capacity Planning	Brakpan: Parking Facilities Study	Brakpan - Parking Facilities / Utilisation and additional requirements	South Africa					X	X			Site visit, observe parking in the area. Conduct parking utilisation survey. Analyse parking data. Propose parking changes / additional interventions. Prepare drawings. Write report.	30 000	Metro	City Of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa
Jul 1998	Aug 1998	Access Management	Master Planning, Costing	Pomona Holdings: Access Management Study	Pomona Holdings improve access to the area. Propose additional roads / road closures / other interventions from a master planning perspective, taking into consider new planned developments and future traffic growth / demand.	South Africa					X	X			Site visit & observe traffic conditions. Obtain new development info and land use planning. 4 step modelling. Propose new roads, road closures and other interventions for base year and 10 year horizon.	65 000	Metro	City Of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa
Jun 1998	Jul 1998	Traffic Safety Study	Traffic Calming	Traffic Calming Study – Pretoria Union Buildings	Traffic Safety / Calming Study due to speeding and accidents in front of the Union Buildings in Pretoria.	South Africa					X	X			Site visit, observe traffic conditions & pedestrian movements, conduct speed survey. Observe sight distances. Analyse data, propose safety & calming measures. Write report.	10 000	Government	National Government	Arcus GIBB / GIBB Africa
May 1998	Jun 1998	TIA - Shopping Centre / Hotel / Offices	Traffic / Transport Impact Assessment	TIA Bedford Square Shopping Centre	TIA Bedford Square Shopping Centre, Hotel & Offices.	South Africa					X	X			Site visit, plan & manage surveys, 4 step modelling in SIDRA. Propose mitigating measures (Lanes, Intersection pay-outs, signal settings etc). Prepare Signal Plans & Write report	30 000	Metro	City Of Ekurhuleni (CoE)	Arcus GIBB / GIBB Africa
Apr 1998	May 1998	TIA - Mixed land use	Traffic / Transport Impact Assessment	TIA Middelburg Waterfront	TIA - Middelburg Waterfront, new mixed land use development.	South Africa					X	X			Site visit, plan & manage surveys, 4 step modelling in SIDRA. Propose mitigating measures (Lanes, Intersection pay-outs, signal settings etc). Prepare Signal Plans & Write report	24 000	Private Developer	Private Developer	Arcus GIBB / GIBB Africa
Mar 1998	Apr 1998	TIA - Industrial Park	Traffic / Transport Impact Assessment	TIA Montana Park, Ext 49	TIA - Montana Park, Ext 49, new wholesale, warehousing and industrial development	South Africa					X	X			Site visit, plan & manage surveys, 4 step modelling in SIDRA. Propose mitigating measures (Lanes, Intersection pay-outs, signal settings etc). Write report.	28 000	Metro	Tshwane	Arcus GIBB / GIBB Africa
Mar 1998	Apr 1998	TIA - Industrial Park	Traffic / Transport Impact Assessment	TIA Montana Park, Ext 80	TIA - Montana Park, Ext 80, new wholesale, warehousing and industrial development	South Africa					X	X			Site visit, plan & manage surveys, 4 step modelling in SIDRA. Propose mitigating measures (Lanes, Intersection pay-outs, signal settings etc). Write report.	26 000	Metro	Tshwane	Arcus GIBB / GIBB Africa
Feb 1998	Mar 1998	TIA - Shopping Centre	Traffic / Transport Impact Assessment	TIA Die Hoewes, Ext 108.	TIA - Die Hoewes, Ext 108, new shopping centre	South Africa					X	X			Site visit, plan & manage surveys, 4 step modelling in SIDRA. Propose mitigating measures (Lanes, Intersection pay-outs, signal settings etc). Prepare Signal Plans & Write report	26 000	Metro	Tshwane / Centurion	Arcus GIBB / GIBB Africa
Jan 1998	Feb 1998	TIA - Housing Development	Traffic / Transport Impact Assessment	TIA - Morningside Erf 49/52	TIA - Morningside Erf 49/52, new mixed land use development.	South Africa					X	X			Site visit & observe traffic conditions, plan & manage surveys, analyse traffic counts, calculate development trips, determine trip distribution, do trip assignment. Enter layouts and trips into SIDRA for analysis. Analyse current and horizon year traffic (with and without development) traffic. Propose mitigating measure (Calming, new infrastructure, travel demand management etc). Prepare Signal Plans & Write report	25 000	Metro	City Of Johannesburg (CoJ)	Arcus GIBB / GIBB Africa
Jan 1998	Aug 1998	Internal Services (Roads, Stormwater,	Survey, Design, Drawings, Site Supervision	New Housing Development	Design and construct Internal Services (Roads, Stormwater, Sewerage & Water reticulation) to	South Africa	X			X		X	X		Site survey with theodolite. Generate DTM of the area. Design all internal services. Create	44 000	Developer	Private Developer	Private

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							PM	TL	R	TS	TM	AD	S	CI					
		Sewerage, Water Reticulation)		Strubensvalley: Internal Services	the new development in Strubens Valley.										drawings in CAD for approval. Prepare Services Report for approval. Site Supervision.				

PROJECTS

(Please print on A3 Paper)

ABBREVIATIONS

PM	Project Manager	TM	Team Member
TL	Task Leader	AD	Analysis / Design
R	Reviewer	S	Site Supervision
TS	Technical Specialist	CI	Commissioning Installation

Employer(s) : Western Metropolitan Local Council (WMLC)

Period : Nov 1995 – Dec 1997

Project Start Date	Project End Date	Project Type	Sub Types	Project Name	Project Description	Country	Role in Project / Position					Specific Tasks			Duties / Activities Performed	Fee Value / Est. Fee Value (Excl. VAT)	Client Type	Client / Project Owner	My Employer
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Oct 1997	Dec 1997	Drawing Management System	Software Development	Roads & Storm water Department Drawing Management System	Developed a drawing management system for the Department.	South Africa		X				X			Design, Software Development, Testing. Scan drawings and input into the Paradox database with the Drawing Management User interface, developed in Delphi (Pascal)	Not Applicable	Local Council	WMLC Local Council	WMLC
Oct 1997	Dec 1997	GIS	Update GIS	Roads & Storm water Department GIS Update	Move the existing old GIS system from Regis to Autodesk World	South Africa		X						X	Configure new GIS system. Port old data to the new GIS system	Not Applicable	Local Council	WMLC Local Council	WMLC
Oct 1997	Dec 1997	Sewerage: Sewer Pipe	Survey, Design, Drawings, Site Supervision	New Sewer Pipe: New Amarosa development	Construction of a 60m sewerage pipe through an erf to connect a new development to the main sewerage system.	South Africa	X			X		X	X		Site survey with theodolite. Generate DTM of the area. Hydraulic calculations, design and sizing of pipes and manholes. Create drawings in CAD for approval. Site supervision.	2 200	Developer	Private Developer	Private
Oct 1997	Nov 1997	Roads: Geometric & Pavement Design	Survey, Design, Drawings, Site Supervision	Construction of Kitaar Road in Radiokop	Construction of 160m long Kitaar road (Class 5) to link developments in the area to the main collector, Elsie Road.	South Africa	X			X		X	X		Site survey with theodolite. Generate DTM of the area. Geometric design of road and pavement design for layer works. Create drawings in CAD for approval. Site supervision.	19 200	Developer	Private Developer	Private
Aug 1997	Sep 1997	Signalised Intersection Design	Survey, Design, Drawings, Site Supervision	New signalised intersection: Jim Fouche & Constantia Drive	New signal controlled road intersection at Jim Fouche & Constantia Drive. Design intersection, road markings, pole and signal positions.	South Africa		X				X			Site survey with theodolite. Generate DTM of the area. Geometric design of road and pavement design for layer works. Create drawings in CAD for approval. Assisted project engineer to do site supervision. Construction done by Council personnel.	24 000	Local Council	WMLC Local Council	WMLC
Jun 1997	Aug 1997	School On street Parking Area: Geometric &	Survey, Design, Drawings, Site Supervision	Upgrade Florida High School Parking	Upgrade parking to accommodate parent vehicles, buses and taxis. McInerney Road was widened to accommodate the increase in	South Africa		X				X	X		Site survey with theodolite. Generate DTM of the area. Geometric design of road and pavement design for layer works. Create drawings in CAD for approval. Assisted project engineer to do site	12 000	Local Council	WMLC Local Council	WMLC

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		Pavement Design			traffic flow as well as the additional buses. A new road was constructed parallel to McInerney Road and the two lanes were made one-way access roads.										supervision. Construction done by Council personnel.				
Apr 1997	Oct 1997	Stormwater - Bulk Pipe	Survey, Design, Drawings, Site Supervision	Stormwater – Potgieter Avenue, Hamburg. 1200mm pipe upgrade	The development of the township Rand Leases x 10 caused major flooding to occur downstream. The existing system in Potgieter Avenue had to be upgraded to a 1200 mmØ pipe and the existing pipe in Leases Rand were linked to that in Potgieter Avenue. Numerous services were crossed including a Gascor pipeline that had to be relocated at a lower depth to accommodate the 566m stormwater pipe upgrade.	South Africa		X				X	X		Site survey with theodolite. Generate DTM of the area. Calculate run-off, do detailed hydraulic calculations, design & size pipe. Create drawings in CAD for approval. Assisted project engineer to do site supervision. Construction done by Council personnel.	84 500	Local Council	WMLC Local Council	WMLC
Feb 1997	May 1997	Stormwater - Flooding	Survey, Design, Drawings, Site Supervision	Stormwater – Rooisering Street, Weltevreden Park Ext 5, stormwater pipe upgrade.	A property near Rooisering Street was flooded due to the existing system not being adequate. This was due to increased runoff from new developments in the area. The existing 450 mmØ system was upgraded to a 600 mmØ pipe.	South Africa		X				X	X		Site survey with dumpy level. Calculate run-off, do detailed hydraulic calculations, design & size pipe. Create drawings in CAD for approval. Assisted project engineer to do site supervision. Construction done by Council personnel.	11 200	Local Council	WMLC Local Council	WMLC
Jan 1997	Mar 1997	Stormwater - Flooding	Survey, Design, Drawings	Stormwater – Pruibos Avenue, Allensneck Ext 3. Stormwater pipe upgrade	The concentration of stormwater on the church's property and the discharge thereof onto the erf just below it caused flooding of the owner's house. Designed a 600 mmØ pipe, 102 m in length, to divert the water into the existing system in Pruibos Avenue.	South Africa					X	X			Site survey with dumpy level. Calculate run-off, do detailed hydraulic calculations, design & size pipe. Create drawings in CAD for approval.	14 250	Local Council	WMLC Local Council	WMLC
Aug 1996	Jun 1997	Roads: Geometric & Pavement Design	Survey, Design, Drawings, Site Supervision	Constantia Drive Construction upgrade	Construction of the southern side (1.2 km) of the dual carriageway of Constantia Drive. Special design considerations were speed, sight distance and access to houses.	South Africa		X				X	X		Site survey with theodolite. Generate DTM of the area. Geometric design of road and pavement design for layer works. Create drawings in CAD for approval. Assisted project engineer to do site supervision. Construction done by Council personnel.	96 000	Local Council	WMLC Local Council	WMLC
Apr 1996	Jul 1996	Roads: Geometric & Pavement Design + Stormwater Bridge	Survey, Design, Drawings, Site Supervision	Van Dalen Road South - Ruimsig	Design of a 866 m long dual carriageway to provide access and collect traffic from the Ruimsig area. The proposed road crossed a 1 in 50 year flood line and a culvert bridge was designed to accommodate the flow of water through the road.	South Africa					X	X	X		Site survey with dumpy level. Geometric design of road and pavement design for layer works. Calculate run-off from the catchment area, design and size the culvert bridge. Create drawings in CAD for approval. Assisted project engineer to do site supervision. Construction done by Council personnel.	150 600	Local Council	WMLC Local Council	WMLC

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					Numerous services had to be removed and relocated.														
Mar 1996	Jun 1996	Sinkhole Rehabilitation	Pavement Design	Sinkhole rehabilitation – Fleurhof	Leakage from the existing sprinkler system into an underground ventilation shaft caused the top layers of soil to fail, subsequently a sinkhole formed. Investigation, design and site supervision of the rehabilitation of the hole.	South Africa					X	X	X		Site survey with theodolite. Generate DTM of the area. Design layers for the rehabilitation of the sinkhole. Create drawings in CAD for approval. Assisted project engineer to do site supervision. Construction done by Council personnel.	16 500	Local Council	WMLC Local Council	WMLC
Feb 1996	Jun 1996	Develop Simple Truss Design & Analysis Software Application	Software Development	Truss design software	Developed a Simple Truss (Civil Engineering) Analysis package that is based on the matrix formulas. Delphi 1 was used in the development of the package. It is capable of producing on-screen and hardcopy scale drawings.	South Africa		X				X			Design, Software Development, Testing, Report writing	Not Applicable	University	University of Johannesburg	UoJ
Feb 1996	Apr 1996	Stormwater - New pipe from detention dam	Survey, Design, Drawings	Park 300 & 302 - Weltevreden Park x 5, below Hillfox Power Centre to Jukskei River	Installation of a new 1350 - 1800 mmØ pipe to discharge the water from the detention dam below Hillfox Power Centre into the stream flowing towards the Klein Jukskei.	South Africa					X	X			Site survey with theodolite. Generate DTM of the area. Calculate run-off, do detailed hydraulic calculations, design & size pipe. Create drawings in CAD for approval.	52 300	Local Council	WMLC Local Council	WMLC
Dec 1995	Feb 1996	Roads: Geometric Design & Pavement Design	Survey, Design, Drawings	Taxi Laybys: Conrad Road, Florida North	The Training College on Conrad Street identified the need for a safe place to off load passengers going to training. Most of the traffic consists of taxis and minibuses. Therefore, it was decided to construct a taxi layby with an island separating it from the main flow of traffic.	South Africa					X	X	X		Site survey with dumpy level. Geometric design of layby and pavement design for layer works. Create drawings in CAD for approval. Assisted project engineer to do site supervision. Construction done by Council personnel.	11 600	Local Council	WMLC Local Council	WMLC
Nov 1995	Dec 1995	Roads: Geometric & Pavement Design	Survey, Design, Drawings	Taxi Laybys: Main Reef Road	Main Reef Road has numerous factories and business along it's length. The safety of workers going to and from work was becoming a major problem. Laybys were designed to give the taxis a safe means to decelerate, stop and off load passengers on the busy road.	South Africa					X	X			Site survey with dumpy level. Geometric design of layby and pavement design for layer works. Create drawings in CAD for approval.	23 100	Local Council	WMLC Local Council	WMLC
Nov 1995	Nov 1995	Stormwater - Pipe & Energy Dissipator	Survey, Design, Drawings, Site Supervision	Stormwater pipe Erf 49, Little Falls Ext 3	Erf 49, Little Falls Ext 3. Installation of a new 675 - 825 mmØ (408 m long) pipe to discharge the water in the open channel along Hendrik Potgieter Boulevard a provincial road.	South Africa					X	X	X		Site survey with dumpy level. Calculate run-off, do detailed hydraulic calculations, design & size pipe. Create drawings in CAD for approval. Assisted project engineer to do site supervision. Construction done by Council personnel.	24 200	Local Council	WMLC Local Council	WMLC

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