



Resume of KENRICK DOOKIE – JULY 2008

Name: **Kenrick Dookie**
Address: # 12 Sunset Drive, Greenvale, Cunupia, Trinidad & Tobago
Date of Birth: May 21st. 1960
Phone: Trinidad: 1-868-693-0284 (H) 1-868-683-7129 (M)
Dubai: 00-971-4-348-0689(O) 050-900-8344 (M)
E-Mail: kenrickdookie@hotmail.com kenrick.dookie@khansaheb.ae
URL: <http://www.kenrickdookie.com/>

OBJECTIVE:

To become best in my field of Civil Engineering, progressing to a level of Senior Management with hands on troubleshooting and Value Engineering, maximizing the use of my experience gained within a fast developing environment to plan, execute and control projects assuring their successful budgetary and timely completion.

QUALIFICATIONS:

I am a well experienced (over 22 years) and degree qualified Construction / Project Manager with a sound knowledge of Civil Construction, Design and Planning. I started by working as a site engineer on the field developing hands on knowledge of how things are actually done. My experience in the field, with various cultures gave me a clear understanding of the thinking and potential assessment of individuals and organizations. In the Southern Caribbean region, there is little opportunity for varied development within any one organization. Over the years, I have diversified, gaining hands-on experience in varied fields; civil infrastructure, marine facilities design & construction, roads & bridges, airports, industrial design and construction, utilities design and construction to include water treatment facility design and construction and high end industrial and commercial facilities including high rise buildings and large steel structures. With a thorough knowledge of these, I developed high competency in the preparation of detailed design and construction schedules, which I have done over the years using P3 and MS Projects. Recently, I ventured privately being given the opportunity to design and construct several high end luxury homes, which afforded me the opportunity to develop my understanding of finishes design and requirements. This period also provided the opportunity to fully understand the M & E requirements, the procedures and standards and co-ordination required in their installations. Over the past two decades, I have worked extensively in the Caribbean region for both small and large organizations and is familiar with most of their Management and Control processes. My journey introduced me to the use of Prolog with AIA contracts and recently its use with FIDIC for document control and monitoring.

EDUCATION

1985	B.Sc., Civil Engineering, University of the West Indies, St Augustine Trinidad
1986	Mechanics of Sediment Transport University of the West Indies, St Augustine
1999	Managing the Contractual Arrangement under a Typical EPC Contract Hawksmere / David Arnold Cooper
1978	GCE Ordinary & Advanced Levels -Naparima College, San Fernando, Trinidad

AFILLATIONS

Member – Association of Professional Engineers of Trinidad & Tobago
Member – Project Management Institute
Member – Rotary Club of San Fernando



COMPUTER / CONTRACT APPLICATIONS

AutoCAD [20+ years], Eagle Point Civil Series

Microsoft Office- Excel (Expert), Word, Access etc

Primavera Project Manager, Sure Track (P3/5) [15+ years]

Pertmaster v8

Microsoft Project up to 2003 [15+ years]

Contracts: FIDIC / ICE / JCT ,AIA – Including Documentation, Submittal Procedures using PROLOG

EMPLOYMENT RECORD.

- 1 **January 2009- Present – Khansaheb Civil Engineering, Dubai, U.A.E. Senior Planning Engineer**
- 2 January 2008- December 2008 - E. PIHL & SØN A.S (Denmark), Jamaica -Planning Engineer
- 3 April 2006-Dec.2007 - Turner International, Trinidad-Project Superintendent
- 4 Feb 2003 – March 2006-Trinidad Contractors Limited, Trinidad / Tobago
- 5 March 1999 – Feb 2001-Central Project Management Ltd, Couva, Trinidad-Designs Manager
- 6 March 1998 – Feb 1999 -NYC Consortium, Piarco, Trinidad -QA / QC Manager
- 7 March 1997 – Feb 1998-Carillion Caribbean Limited, Couva, Trinidad-Project Manager
- 8 March 1996 – Feb 1997-Seereeram Brothers Limited, Tobago - Manager, Tobago Operations
- 9 March 1995 – Feb 1996-Mustapha's Engineering Limited, Trinidad - Special Projects Manager
- 10 March 1988 – Feb 1994-National Contractors Limited, St Lucia-Projects / Contracts Manager

REFERENCES

- 1 Simon Jardine - Projects Manager - Carillion Caribbean Limited
Contact: : 1-868-680-8585 e-mail: toucan@tstt.net.tt
- 2 Bill Ramrattan - Manager - Central Project Management Limited
Contact: : 1-868-683-5783, 1-868-636-2765 e-mail cpml@tstt.net.tt
- 3 Dr. Paul R Rampersad - Principal Drilling Completion Engineer , Petronas Carigali Sdn Bhd
Contact: 603-2331 3253 (O) 603-4252 6551 (H) 603-2331 2988 (FAX)
e-mail paulrampersad@petronas.com.my
- 4 Patrick Smith - Projects / Country Manager - Turner Alpha Limited
Contact: 1-868-740-0015 e-mail patrick.smith@gmail.com

CURRENT POSITION

Over the past years I have done extensive work on Construction Scheduling for civil, building and industrial facilities. I am versed in the use of MS Projects and Primavera P3/P5. My management duties usually involved actual progress updating, projected completion analysis and cost control & projections.

At present, I am working with **Khansaheb Civil Engineering** in Dubai on the Al Furjan Development in Jebel Ali. The project involves the development of a residential / industrial estate. We are currently in Phase 1 – Infrastructure Works. I am responsible for the management of the Project Planning and monitoring department. I also am directly responsible for the preparation of Claim Evaluation Schedules etc. Previously I was with **E. PIHL & SØN A.S.** on the execution of Northern Coastal Highway Improvement Project, Segment 3, Jamaica in the capacity of **Planning Engineer**. The project involves updating the existing road, which runs from Ocho Rios to Port Antonio on the northern coast of Jamaica (Approx 100 km). This project is expected to be complete by early 2009. Prior to this appointment, I was employed with **Turner International** managing the construction of the Government Campus Plaza on Richmond Street, Port of Spain, Trinidad. The approximately 1.6 million sq. ft. complex includes 2# 11-story Buildings, 2# 23-story Towers and a six story Car Park housing a central plant to service the entire complex.



MAJOR PROJECTS / RESPONSIBILITIES (page 1)

ROADWORKS & INFRASTRUCTURE

- 1 **1990/1992 - FEEDER ACCESS ROADS – SURFACE DRESSING** National Contractors Ltd – St. Lucia - Managing and executing the priming and surface dressing of app. 5 km of agricultural access roads.
- 2 **1993- ESTABLISHMENT OF CRUSHING PLANT-** National Contractors Ltd – St. Lucia
-The feasibility study, Sourcing, Finance negotiation and acquisition of a 100 TPH Aggregate Crushing Plant to include the establishment of two quarries, infrastructure work, sand mining operations, washing and screening operations
- 3 **1990/1993 - INFRASTRUCTURE - JALOUSIE PLANTATION** National Contractors Ltd – St. Lucia - Excavation and preparation to base level of road network in resort, preparation of foundation sites for cottages, buildings to include sewer, water and electrical ducting work for the Jalousie Development Co. of Iran (later the Jalousie Hilton)
- 4 **1990/1993 - MON REPOS PLAYING FIELD** - National Contractors Ltd – St. Lucia
- The Site investigation, design and construction of a five acre playing field to include access road and perimeter drain etc. for the Government of St. Lucia
- 5 **1996 - WEST COAST ROAD DEVELOPMENT PROJECT** - National Contractors Ltd – St. Lucia
- This project involved the excavation of approximately 4 miles of soil and rock to widen and realign carriageway for the Government of St. Lucia and supervised by Crown Agents / Halcrow . My duties included the Preparation of Tender, Program of Works, Cash Flow, Measurement and Method of Works
- 6 **1996-1997 – PRODUCTION & LAYING OF ASPHALT & CONCRETE**
Seereeram Brothers Limited, Tobago,- I was responsible for the management of the Tobago Operations , undertaking Road, Bridges and other Infrastructural construction, to include the completion of Road Rehabilitation Program Contracts 8A, 8B, 10 and 11 - Roads and Bridges, North Side Road Rehabilitation Project, Rural Access Roads Program Contract 12 and overseeing the manufacture of Asphalt and Concrete at their plant in Lowlands.
- 7 **2005/2006 – MASON HALL / SPRING GARDENS ROADS** - Trinidad Contractors Limited, Tobago.- I was responsible for the Project management and Engineering during the construction of the 30 km of roadway and related infrastructure forming the Mason Hall and Spring Gardens Roads

BRIDGES

- 1 **1997 – B 1/11 – LOUIS DOR BRIDGE** – Seereeram Brothers Limited, Tobago
- Managing the completion of the 33 m, single span pre-stressed bridge in Louis Dor, Tobago.
- 2 **1997 – B 1/8 – CAST IN-SITU BRIDGES** – Seereeram Brothers Limited, Tobago
- Managing the completion of several small cast-in-situ bridges in Tobago.
- 3 **1998 – CROSS CROSSING INTERCHANGE** - Carillion Caribbean Limited, Couva, Trinidad
- As Project Manager, I was responsible for the Management and Engineering during the construction of 5 Bridges, comprising the Cross Crossing Intersection in San Fernando. The included Static Load Pile Testing, co-ordination of Piling operation, design of Gang Forms for Abutment Construction and the installation of both pre-stressed and post tensioned beams.
- 4 **1999 – B 1/1 – MAFEKIN BRIDGE** – Northern Construction Limited, Trinidad
- Project Engineering for the Construction of a 130 ft span Cantilever Bridge at Mafekin, Mayaro, Trinidad.
- 5 **2005 – PLYMOUTH BRIDGE / SITE PRODUCTION OF AASHTO BEAMS** – Trinidad Contractors Limited, Tobago - The production on-location of AASHTO III beams utilizing a modular stressing frame
- 6 **2006– REDESIGN OF GRENADA BRIDGES** – Consolidated Contractors (UK)Limited, Grenada
- This project involved the finite element redesign and Construction Consultancy of the Beausejour and Queens Park Bridges in Grenada. Supervised by DESSAU-SOPRIN INT. LTD, Canada



MAJOR PROJECTS / RESPONSIBILITIES (page 2)

MARINE

- 1 **1990 - DEVELOPMENT OF PORT VIEUX FORT**- National Contractors Ltd – St. Lucia
- Sub-contract works for the Bund Wall Construction, Dyke Protection to include Rip-Pap and Stone Armoring, Building excavations, Concrete sea wall construction, site preparation etc. for Daito Kogyo Co Ltd. Supervised by Lee Young and Partners
- 2 **1992/1993 - VIEUX FORT RECLAMATION PROJECT - PHASE 1** - National Contractors Ltd
-Construction of Bund for reclamation of approximately 78 acres of land to include filling ,Rip-Rap & Armoring protection for Daito Kogyo Co Ltd. of Japan supervised by Lee Young and Partners
- 3 **1992/1993 - DENNERY FISH LANDING BASE** - National Contractors Ltd – St. Lucia
-Construction of Bund Wall, Breakwater and Protection Works, Reclamation using imported fill of approximately One acre of land for fishing facilities, Sheet Pile wall Concrete pier and Infrastructure works for Daito Kogyo Co Ltd. of Japan supervised by Pacific Consultants International
- 4 **1993 - DREDGING OF ST. ANNS RIVER** - Caribbean Seaworks Limited (Consultant)
- Development of method statement and Project Management Services for the Dredging of St. Ann's River and Estuary and building of a 150 ton haul out facility for the Marina in Le Martin, Martinique – Project financed by Carenatilles
- 5 **1994 - FISHING PORT / CONCRETE PIER** - Caribbean Seaworks Limited (Consultant)
- Development of method statement and Project Management Services for the Construction of a Fishing Port at Victoria and a Concrete Pier at Guave, Grenada – Project financed by the Japanese Government
- 6 **1995 – MARINE RAIL** - Mustapha Engineering – Trinidad
- -The analysis and design of a Marine Rail System to accommodate 400 ton ships for dry docking at Chaguaramas, Trinidad.
- 7 **1995 - MARINA FACILITY – US NAVY** - Caribbean Seaworks Limited (Consultant)
- Development of method statement and Project Management Services for the Dredging and construction of a Marine facility to include 2 Jetties at Coolidge, Antigua – Project financed by the US Navy
- 8 **1996 - CONCRETE SHEET PILE WHARF** - Caribbean Seaworks Limited (Consultant)
- Design and Project Management Services for the Construction of a Fishing Port, to include a pre-stressed concrete sheet pile wall, at Port Sauters, Grenada – Project financed by the Grenada Government
- 9 **2000 - SEWERAGE OUTFALL** - Caribbean Seaworks Limited (Consultant)
- Project Management and Technical Services for the Installation of a 200 ft deep sewerage outfall, 1000 ft long in Roseau, Dominica – Project financed by Dominica Water and Sewerage Co. Ltd



MAJOR PROJECTS / RESPONSIBILITIES (page 3)

INDUSTRIAL

- 1 **1991/1992 - SHELL LPG FILLING SITE - VIEUX FORT** National Contractors Ltd – St. Lucia
- Excavation in rock for the installation of LPG Storage Tanks, Filling facilities and construction of Jet A1 Fuel storage Tank Base and emergency fire facilities for Shell Antilles
- 2 **1991/1992 - SHELL HEWANORRA FUEL LINE - VIEUX FORT** National Contractors Ltd – St. Lucia- Setting out, excavation and preparation of trenches for laying of Jet A1 fuel line to Hewanorra Airport to include all concrete works and reinstatement for Shell Antilles
- 3 **1991/1992 - WINERA EXPANSION PROGRAM - VIEUX FORT** National Contractors Ltd – St. Lucia - Factory expansion for color coater installation, Construction of new machine bases, Construction of underground drainage facilities, Design and construction of employee's canteen and production office block for WINERA.
- 4 **1995 – THE FABRICATION & ERECTION OF THE MELTSHP EXTENSION FOR MITTAL STEEL** - Mustapha's Engineering Works Limited, Trinidad. The project comprised the fabrication and erection (in a working plant) of the Meltshop Extension 100' high x 200' wide to carry a 300 ton crane.
- 5 **1996 – THE DESIGN AND FABRICATION OF AN ALLOY FEEDING SYSTEM FOR MITTAL STEEL** - Mustapha's Engineering Works Limited, Trinidad. The project comprised the design, fabrication and erection (in a working plant) of Alloy Feed Bins for the Iron Furnaces.
- 6 **1996 – THE FABRICATION AND ERECTION OF A COLD WATER PIPING SYSTEM TO THE NEW PUMP HOUSE FOR MITTAL STEEL** - Mustapha's Engineering Works Limited, Trinidad.
- The project comprised the fabrication and erection of Cold Water Piping for the Steel Plant.
- 7 **1996 – A NEW ROD MILL INSTALLATION FOR MITTAL STEEL** - Mustapha's Engineering Works Limited, Trinidad - The project comprised the installation of a new, high speed rod mill .
- 8 **1996 – SLURRY PUMP INSTALLATIONS AT TCL** - Mustapha's Engineering Works Limited, Trinidad. -The project comprised the foundation works and Steel Structure including the installation of the # 4 Slurry Pump at Trinidad Cement Limited - Mayo

STRUCTURAL

- 1 **1991/1992 - WINERA EXPANSION PROGRAM - VIEUX FORT** National Contractors Ltd – St. Lucia - Factory expansion for color coater installation, construction of new machine bases, construction of underground drainage facilities, Design and construction of a Structural Steel Building as the employee's canteen and production office block for WINERA.
- 2 **2001 – RETAINING WALL – CIPERO RIVER, GULF VIEW** - -Central Project Management Ltd, Couva, Trinidad -The project comprised the design and construction supervision of a 500 ft by 40 ft high Cantilever Retaining Wall along the Cipero River in San Fernando.
- 3 **2001/2003 – INTACO WAREHOUSE** – Private, Trinidad
- The design and construction of a Structural Steel Warehouse (40ft x 100')
- 4 **2001/2003 – TEMPORARY ROOF OVER PARLIAMENT BUILDING** – Private, Trinidad
- The design and construction supervision of a 120 ft span by 100 ft high steel structure to be installed over the Parliament Building in Trinidad during the Building's restoration.
- 5 **2001/2003 – RESIDENCE OF NAZIM BABWAH – BEL AIR, TRINIDAD**– Private, Trinidad
- The design and construction of a 25,000 square feet, 4 storey home for Nazim Babwah to include all mechanical and finishes

AIRPORT

- 1 **1998/1999 – PIARCO INTERNATIONAL AIRPORT** - NYC Consortium – Piarco, Trinidad
- This project comprised the construction of the new Piarco International Airport in Trinidad. I was responsible for the QA/QC management along with all Project Engineering. My duties also involved the design of temporary roads and structures and all Project Planning and co-ordination.



MAJOR PROJECTS / RESPONSIBILITIES (page 4)

UTILITIES

- 1 **1990/1993 - INFRASTRUCTURE - JALOUSIE PLANTATION** National Contractors Ltd – St. Lucia - The construction of road network in resort, preparation of foundation sites for cottages, buildings to include sewer, water and electrical ducting work installation for the Jalousie Development Co. of Iran (later the Jalousie Hilton)
- 2 **2001 – MAYARO WATER TREATMENT PLANT** - -Central Project Management Ltd, Trinidad -The project comprised the analysis, design and construction supervision of a Water Treatment Plant to serve the area of Mayaro. This included all process & instrumentation design, civil & structural designs and project management. This projects was executed under an EPC Contractual Arrangement
- 3 **2002 – CARLSEN FIELD WATER TREATMENT PLANT** - -Central Project Management Ltd, Trinidad -The project comprised the analysis, design and construction supervision of a Water Treatment Plant to serve the area of Carlsen Field. This included all process & instrumentation design, civil & structural designs and project management. The design incorporated the use of a modular Flocculation & Clarification Unit provided by United Filters. This projects was executed under an EPC Contractual Arrangement
- 4 **2002– FREEPORT WATER TRANSMISSION MAINS-** -Central Project Management Ltd, Trinidad -The project comprised the analysis, design and construction supervision of 20 km of water transmission and distribution mains. The design utilized HDPE piping and included the preparation of all system specification and performance criteria. This projects was executed under an EPC Contractual Arrangement
- 5 **2002– P & I and FACILITY DESIGN – WASTE TREATMENT** -Central Project Management Ltd, Trinidad - The Process and Instrumentation Design of an industrial waste treatment facility for waste generated from Rum Distillation Process at Angostura Trinidad Limited

HIGH RISE

- 1 **2006/2007 – GOVERNMENT CAMPUS PLAZA** - Turner International – POS, Trinidad - This project comprised the management of the construction of the Government Campus Plaza on Richmond Street, Port of Spain, Trinidad. The approximately 1.6 million sq. ft. complex includes 2# 11-story Buildings, 2# 23-story Towers and a six story Car Park housing a central plant to service the entire complex. I was responsible for the supervision of the 2 23-storey towers. This involved the co-ordination of multiple contractors, preparation of Master Schedules and general Quality Control.

LOW COST HOUSING

- 1 **2001/2002 – TORUBA HOUSING PROJECT** - Central Project Management Ltd, Trinidad - This project comprised the design and preparation of cost proposal for the construction of modular low cost housing units (2 & 3 Bedroom) utilizing foam concrete walls and Post Tensioned floor slabs.

POST TENSIONING

- 1 2001/2002 – CPML CONSTRUCTION - Central Project Management Ltd, Trinidad -Research, development of post-tensioning facilities and capabilities for CPML Construction; this is currently utilized within the Caribbean region.

PRE-STRESSING

- 1 2005 – SITE PRODUCTION OF AASHTO BEAMS – Trinidad Contractors Limited, Tobago - The production on-location of AASHTO III beams utilizing a modular stressing frame



MAJOR PROJECTS / RESPONSIBILITIES (page 5)

STATIC PILE LOAD TESTING

- 1 **1998 – STATIC PILE LOAD TEST – Carillion Caribbean Ltd, Trinidad**
- The setting up, analysis and preparation of Axial and Lateral Load Pile Test reports
- 2 **2005 – STATIC PILE LOAD TEST – Trinidad Contractors Limited, Tobago**
- The setting up, analysis and preparation of Axial and Lateral Load Pile Test reports

PROJECT ENGINEERING

Being a Project Manager as both the Contractor & Consultant representative, I have used and developed numerous tools to properly monitor and control the execution of projects. Cognizant of the entire project's execution process from concept to completion, I have successfully developed schedules utilizing state of the art software (P3 etc). Using my extensive knowledge and background, I have efficiently reviewed and commented on the designs, construction details, technical specifications, etc. as well as answering questions from bidders during the tender period and review and reporting on tenders. Having used Prolog and similar software to successfully monitor project engineering to include all document control, I am able to manage and engineer multi-discipline projects from front end, detail design, construction, commissioning, hand-over and close-out, within schedule and cost to an acceptable quality.

PROJECT ENGINEERING EXPERIENCE

- 1 **1998/1999 – PIARCO INTERNATIONAL AIRPORT** - NYC Consortium – Piarco, Trinidad
-For this project, I was responsible for the preparation and / or monitoring of all Project Submittals, RFI's, CO's, NCR's, etc. ensuring that they were timely addressed. My duties also included the review of designs from consultants and the submission of shop drawings etc. Using Prolog, weekly reports were prepared, including summary logs of all required submittals etc. and progress or works for all stakeholders.
- 2 **2006/2007 – GOVERNMENT CAMPUS PLAZA** - Turner International – POS, Trinidad
For this project, I was responsible for the Supervision of the 2 -23 storey towers; in addition, I was responsible for the following:-
 - Review of Contractor's RFI; answer or forward to relevant consultant and monitor progress.
 - Monitor NCRs as prepared by QA Department; follow up with contractor and QS department.
 - Review submittal logs with regard to the progress of works to ensure that there are no clashes or delays.
 - Update master schedule for entire project with information obtained from individual contractors so as to ensure proper co-ordination and as far as possible preempt submission of claims.Using Prolog, weekly reports were prepared, including summary logs of all required submittals and responses for all stakeholders

SAFETY

Having worked in multiple industries, I am familiar with the varied safety requirements and practices. My tenure at Mittal Steel, a fully operating heavy industrial plant while construction is taking place, epitomized the need for an unequivocal commitment to Safety. Using my varied experience, in 2003, I prepared a Safety Manual for Trinidad Contractors Limited. The manual covered works from Heavy Equipment Earthworks, Excavation, Filling, Concrete Works, Welding, Sandblasting, Diving, Structural Steel Erection, Asphalt Works, the operation of pre-stressing equipment and Heavy Lifting. As Project Manager on several small jobs, I also conducted Tool Box talks and Safety Audits.



MAJOR PROJECTS / RESPONSIBILITIES (page 6)

PLANNING & SCHEDULING

Over the past 18 years, I was involved in the day to day planning as a site engineer to developing master plans for both tender and construction using MS Projects, Sure Trak and P3. This emphasised the need for good construction planning, as a fundamental and challenging activity in the management and execution of projects. My extensive experience helped with the selection of technology, the definition of work tasks, the estimation of the required resources and durations for individual tasks, and the identification of any interactions among the different work tasks. Using good construction plans, budgets and the final schedule for works were properly developed.

PLANNING & SCHEDULING EXPERIENCE (page 1)

- 1 **1990/1992 – SURFACED DRESSED ACCESS ROADS** National Contractors Ltd – St. Lucia
These jobs were distributed over the entire southern section of the island, each with difficult access and average 10 miles apart through dense forest or banana plantations. In addition, the final road structures did not allow for the movement of Extra Heavy equipment. The final execution plan involved cutting and filling in three(3) stages; First a right-of-way clearance to the end, a return cut back to the start and a finish shaping using other lighter equipment followed by the formation of the road structure. This way, at all times the plant achieved good productivity.(Program used – MS Projects)
- 2 **1990/1993 - INFRASTRUCTURE - JALOUSIE PLANTATION** National Contractors Ltd – St. Lucia
This jobs comprised the construction a concrete road network within the Jalousie Plantation (between the Jalousie Mountains in Soufriere, St Lucia). The logistic plan was crucial here, as no temporary work area was allowed on the proposed resort. Time Location Charts were developed and used. These charts highlighted the importance of activity completion, production rates and the relationship between the utility installations and surfacing. Planning using this tool, allowed all activities to proceed simultaneously without clashing. (Program used – MS Projects, Excel)
- 3 **1990 - DEVELOPMENT OF PORT VIEUX FORT-** National Contractors Ltd – St. Lucia
This job entailed the construction of a progressive bund wall in the sea, followed by rip-rap and amour protection on the sea-side slope. The method used was progressively raising the bund to above the sea level, followed immediately by the filter bed and rip-rap. This allowed the entire length to be formed in a short period and before the ever present Hurricane Season. After this was in place the wall , fully protected, was raised to it's full height. (Program used – MS Projects)
- 4 **1995 – THE FABRICATION & ERECTION OF THE MELTSHOP EXTENSION FOR MITTAL STEEL** - Mustapha's Engineering Works Limited, Trinidad.
The project comprised the fabrication and erection (in a working plant) of the Meltshop Extension 100' high x 200' wide to carry a 300 ton crane. The peculiarity of this project was the size and weight of the elements. Each of the 4 combined box stanchions weighed over 75 tons and was 100 ft long. Road transportation restrictions did not allow for these to be fully assembled off site. Special temporary joints were designed to allow for transportation and erection. The sections were fabricated off-site, transported to the plant, joined and erected. This allowed for full utilization of the cranes at both location with the complete erection operation being done in a short period. Movement routes were carefully planned and cranes positioned. The second obstacle was the erection of the Space Frame Roof (100'x200'x8' deep). Although this structure was not exceptionally heavy, its size and final location made the complete pre-assembly impractical. After careful analysis, the structure was divided into Nine (9) parts with additional members included for erection purposes; all members were pre-fabricated in a workshop, transported to site and assembled. The tagging and planning of this was extremely extensive and special assembly drawings were made to ensure accuracy; When all portions were finally assembled on site, the roof was erected and the temporary elements removed.(Program used – MS Projects, Excel, AutoCAD)



MAJOR PROJECTS / RESPONSIBILITIES (page 7)

PLANNING & SCHEDULING EXPERIENCE (page 2)

- 5 **1996 – A NEW ROD MILL INSTALLATION FOR MITTAL STEEL** - Mustapha's Engineering Works Limited, Trinidad

The project comprised the installation of a new, high speed rod mill. The peculiarity of this project was the desired final positions of the guides with the accuracy being to $\frac{1}{10}$ of a millimeter. The planning involved the scheduling of preliminary civil works, positioning of the guides, cooling water lines etc. using preset adjustable anchors, checking the accuracy of the line, final civil works, confirming accuracy, testing at low speed, final testing at high speed and hand-over. Primavera was used for this planning exercise, with a fully resourced schedule on a 24-hour work day (2 shifts). The program was updated daily recording completed works, works to be re-done and rescheduled thus allowing all stakeholders full access to all information as to the progress and expected completion. It should be noted that a large bonus payment was given for the on-time completion.

- 6 **1998 – CROSS CROSSING INTERCHANGE** - Carillion Caribbean Limited, Couva, Trinidad
This Project entailed the of 5 Bridges comprising the Cross Crossing Intersection in San Fernando, Trinidad. Each bridge basically required the same, pile testing, piling, sub-structure etc. The close proximity of the bridges made scheduling very critical as to the location of activities; static load testing and piling could not go on in close proximity, similarly with concreting and piling. Primavera was chosen for this project. The area was divided into zones and sub-zones and activities coded respectively, thus allowing us to zero in on all activities planned for any area and possible impacts. Constant update of the schedule, incorporating delays and change orders, highlighted actual impact on the entire project thus allowing a more efficient and effective control.

- 7 **1998/1999 – PIARCO INTERNATIONAL AIRPORT** - NYC Consortium – Piarco, Trinidad
This project comprised the construction of the new Piarco International Airport in Trinidad. At the inception of the Project, a master project schedule with more than 5,000 schedule activities was created. The requirement of all engineering disciplines, sub-contractors etc. were detailed, and their resource for equipment, people and materials included. On a monthly basis, this was updated enabling us to instantly assess and analyze individual discipline performance, tie work performed to sub-contractor and suppliers invoices, forecast future activities and take any corrective actions needed.

- 8 **2002 – CARLSEN FIELD WATER TREATMENT PLANT, FREEPORT WATER TRANSMISSION MAINS**-Central Project Management Ltd, Trinidad

These projects comprised the analysis, design and construction management of a Water Treatment Plant and transmission mains. This projects were executed under an EPC Contractual Arrangement. The Primavera system was used to handled the engineering, procurement and construction scheduling duties from the beginning of the project. In the early front-end planning phase – the schedule development and baseline phase – involved intensive scheduling of all phases of the project with all of the inherent ties between those phases, where engineers and superintendents worked together to identify points where the schedules would meet. Then management teams reviewed the schedules, ensuring that contingency time was built in for safety concerns and problem management. Progressively, in addition to ensuring that the project activities were maintained, updates were done, ties between activities were fixed, ensure that recovery plans was in place for schedule slippage. Earned Value Analysis were done to determine if the project is performing against the plan. Nearing completion, with the construction team closer to the outage date, the schedule was updated making sure that all engineering, procurement and construction activities were done as they were planned to be done, and that start-up of the various systems was on target or ready to occur.



MAJOR PROJECTS / RESPONSIBILITIES (page 8)

PLANNING & SCHEDULING EXPERIENCE (page 3)

- 9 **2005 – PLYMOUTH BRIDGE** – Trinidad Contractors Limited, Tobago –
This project involved the construction of a 25m span AASHTO III Girder bridge. The bridge was originally 6m wide, but after the abutment was constructed, the bridge was widened to 7.2 m and an additional Girder added. This Change Order resulted in the sequence of the final construction operations being changed so as to maintain the independence of the Bridge Superstructure (the wing walls etc. now became critical as they were located below the final deck and had to be constructed before, thus maintaining the expansion gap). Using Primavera, I was able to accurately determine the final sequence of operations and impact on the schedule.
- 10 **2005/2006 – MASON HALL / SPRING GARDENS ROADS** - Trinidad Contractors Limited, Tobago. This project involved the construction of the 30 km of roadway and related infrastructure forming the Mason Hall(22 km) and Spring Gardens (8km) Roads, comprising, excavation, fill, culvert crossings, box-drains, curb and slipper, sub-base, base and asphalt paving. The contract commenced without the utilities being relocated and final designs completed. The job posed several problems; the sequencing of the utility relocation, concrete production for the structures (there are constraints on the daily supply quantity available in Tobago), the availability of Road Base and Asphalt material etc. The initial schedule was done using MS Projects 2003 (Client's requirement). From this, Time Location Charts were developed. A required schedule of relocation was generated for the Utility company and designers assuring the timely execution of their respective work. I was also able to develop a proper lead time for the importation of material to be used in the Road Structures. The Time Location Chart was the most powerful tool in properly managing the construction and ensuring adherence to productivity requirements. It also emphasized the effects of Change Orders and Design Corrections.
- 11 **2006/2007 – GOVERNMENT CAMPUS PLAZA** - Turner International – POS, Trinidad
This project comprised the management of the construction of the Government Campus Plaza on Richmond Street, Port of Spain, Trinidad. The approximately 1.6 million sq. ft. complex includes 2# 11-story Buildings, 2# 23-story Towers and a six story Car Park housing a central plant to service the entire complex. I was responsible for the supervision of the 2 23-storey towers. The project was divided into packages, awarded to five (5) main contractors and four(4) nominated specialist contractors. The Mechanical and Electrical works, which formed two packages involved works in all five (5) structures and similarly for the specialist contractors (Lifts, Curtain Wall, Controls). An Indicative Master Schedule in Primavera was prepared by Turner and provided to all bidders. All contractors were to submit a Primavera schedule in keeping with the requirement of the TIMS; this was not done and it was up to us to develop a comprehensive master schedule to incorporate all works, including those of the design consultants. I was responsible for adding to the contractor's schedule, those activities related to their job but were the responsibility of others, and updating this using the actual progress. This allowed us to properly co-ordinate the works of all the contractors and consultants so as to mitigate delays and clashes. In many cases, it involved the planning and co-ordination of the works of several contractors as they were all required to carry out works at the same location (hidden plumbing, electrical and architectural etc.) With proper coding, Primavera was a very efficient tool in this multi-contractor environment.



MAJOR PROJECTS / RESPONSIBILITIES (page 9)

PLANNING & SCHEDULING EXPERIENCE (page4)

- 12 **2008 – NORTHERN COASTAL HIGHWAY - JAMAICA** - E Pihl & Sønns (Denmark)– Jamaica
This project is the construction of the Northern Coastal Highway Improvement Project, Segment 3 in Jamaica. The scope includes upgrading the existing road, which runs from Ocho Rios to Port Antonio on the northern coast of Jamaica (Approx 100 km). As Planning Engineer, I am responsible for the scheduling of the completion phase of this project. It involves the earthworks of the final section, and remaining structural works for the entire roadway. I developed Time Location Charts using *ChainLink* – allowing me to integrate my data from P3 / P5 into a comprehensive chart outlining the work sequence and location. This output also highlighted when certain successor activities was moving out of the time zone as required by the specifications and where production rates needed to be adjusted. In addition, using *Pertmaster v8*, I undertook Critical Path Analysis & PERT to accurately facilitated the duration of a project to be calculated based on the proposed schedule and associated risks. Identifying potential risks always allow for proper management in overcoming them. More so, it emphasized the need for dynamic programming in infrastructural projects in order to meet required goals.

COST CONTROL SKILLS

In addition to my planning experience, I have also gained first hand knowledge of Cost Control Procedures on several projects. To this end, I am capable of the following:-

- Project cost control which includes
 - monitoring cost performance
 - ensuring that only appropriate project changes are included in a revised cost baseline
 - informing project stakeholders of authorized changes to the project that will affect costs

- Earned value management Analysis