

AKHNATON ST.ROSE
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CURRICULUM VITAE

PROFESSIONAL QUALIFICATION

Registered Professional Engineer (St.Lucia)
Registered Professional Engineer (Trinidad and Tobago)

MEMBERSHIP

Association of Professional Engineers of St.Lucia
Association of Professional Engineers of Trinidad & Tobago

EDUCATION

University of Toronto

Master of Engineering
Option: Structural Engineering

2001 – 2002

Courses Completed:

1. Bridge Engineering
2. Behaviour and Design of Steel Structures
3. Design of Tubular Steel Structures
4. Prestressed Concrete Structures
5. Prestressed Reinforced Concrete Structures
6. Concrete Construction
7. Instrumentation Techniques in Concrete Technology
8. Management of Building Projects
9. Pre-Project Planning and Constructability Analysis
10. Airport Planning and Engineering

University of the West Indies

B.Sc. - Civil Engineering (second class honours – upper division)
Option: Structural Engineering

1997 – 2000

Sir Arthur Lewis Community College

A-levels – Mathematics, Physics, Economics
A-O – General Paper
Special Award: Island Scholarship

1995 - 1997

St. Mary's College

1990 – 1995

SEMINARS, CONFERENCES AND WORKSHOPS:

1. Conference on Earthquake Engineering by The Caribbean Division of the Institution of Structural Engineers, Mt. Irvine Bay Hotel, Mt. Irvine, Tobago, 2005.
2. Overview of the Structural Provisions of the IBC 2003 International Building Code at The University of the West Indies, St. Augustine, Trinidad by Dr. S.K. Ghosh of S.K. Ghosh Associates Inc., Illinois, U.S.A., 2006.
3. Engineering Guidelines – The Impact of Climate Change on Design Wind Speeds in St. Lucia, October, 2008.
4. Engineering for Climate Change in St. Lucia – The Hurricane Scenario, July 2010.

POST GRADUATE WORK EXPERIENCE

Amarna Consult Limited

2003 – Present

Civil / Structural Engineer/ Director (St. Lucia, Trinidad & Tobago) Full Time

Selected Projects:

1. National Development Corporation Business Development Centre (2010)
Client: National Development Corporation
Project Budget: \$EC29M
Role: Structural Design of 6-storey reinforced concrete commercial office building structure utilizing post-tensioned suspended slabs and raft foundation. Design of associated civil works.
2. Villa Hall, Cap Estate, Gros Islet, St. Lucia (2010)
Client: Under Project Management of Educe Limited
Project Budget: \$EC3.5M
Role: Structural and foundation design of apartment building structure with precast wall panels on shallow foundation. Design of external works including retaining walls, swimming pool and reinforced concrete water tank.
3. Gamppers Residence, Laborie, St. Lucia (2009)
Client: Mark Gampper
Project Budget: \$EC2.7
Role: Structural and foundation design of 5-storey residential structure with post-tensioned suspended slabs, post-tensioned raft on elastic foundation and reinforced masonry load-bearing walls.
4. Adams Bay, Bequia, St. Vincent & The Grenadines (2008)
Client: Lane Pettigrew and Associates
Role: Structural design of accommodation building units and service buildings.
5. The Seaside, Cap Estate, St. Lucia (2008)
Client: Ettore Cicchelero
Role: Civil and structural design of all buildings and infrastructure.
6. Jasmine Villas, Rodney Bay, St. Lucia (2008)
Client: Martin Johnson
Role: Structural design of buildings.
7. Chatham Government Primary School, Trinidad (2008)
Client: Education Facilities Company Limited

- Role: Civil and structural design of infrastructure and all buildings consisting of steel framed roofs supported on reinforced concrete frames on shallow foundations.
8. Shangri-la Development, Castries, St.Lucia (2007/2010)
Client: Exquisite Homes Limited
Project Budget: \$EC3.2M
Role: Project development and management, complete design of infrastructure and eight residential buildings utilizing load-bearing block masonry walls with post-tensioned foundation and suspended slabs.
 9. Trunk Roads Programme, Churchill Roosevelt Highway Extension to Manzanilla, Trinidad (2006 / 2007)
Client: Ministry of Works
Role: Structural (reinforced and prestressed concrete) and foundation design of bridge structures including river bridges, underpass and overpass structures, and box culverts (performed under BBFL Consultants Limited (TT) in collaboration with WSP group (UK)).
 10. Maraval Access, Maraval, Port Of Spain, Trinidad (2006)
Client: Ministry of Works
Role: Structural and foundation design of bridge structures (performed under BBFL Consultants Limited (TT) in collaboration with Halcrow).
 11. Sunset Harbour, Rodney Bay, Gros Islet, St.Lucia (2007)
Client: Martin Lawless
Role: Structural design of 6-storey reinforced concrete condominium building structure with irregular cast in situ slabs, on pile foundation.
 12. St.Vincent National Library, St.Vincent (2005)
Client: Government of St.Vincent
Role: Structural design review and recommendations (performed under BBFL Consultants Limited, Trinidad).
 13. Consolidated Foods Building Refurbishment, P.O.S., Trinidad (2005)
Architect: Rejane Limited
(performed under BBFL Consultants Limited, Trinidad).
 14. National Broadcasting Network Information Channel Compound Building Refurbishment, Morvant, P.O.S., Trinidad (2005)
Architect: Rejane Limited
 15. Villas on the Green, Cap-Estate, Gros Islet, St.Lucia (2005)
Client: Fortress Caribbean Property Fund
Project Budget: \$EC13.7M
Role: Structural design of villa units, including post-tensioned design of suspended slabs.
 16. The Landings, Pigeon Point, Gros Islet, St.Lucia (2005)
Client: The Landings Limited (under Project Management of Educe Limited)
Project Budget: \$EC400M
Role: Geometric and pavement design of roads; drainage design; general coordinating of site servicing design; structural design of swimming pools, retaining walls, decorative walls, pedestrian walkways and light pole bases; research of swing bridge design options.

17. Bay Gardens Beach Resort and Spa, Rodney Bay, Gros Islet, St.Lucia (2005)
 Client: Metro Construction Group
 Project Budget: \$EC23.4M
 Role: Structural design of three storey block masonry accommodation units on shallow foundations, with prestressed floor joist and filler block system for slabs.
18. Emerald Development, Grand Riviere, Gros Islet, St.Lucia (2004)
 Client: National Insurance Corporation (NIC)
 Role: Design Team Leader
 Project Budget: \$EC5.3M
 Responsibility: Design of civil infrastructure including roads, drainage, sidewalks, accesses, retaining walls, sub-division of 29.4 acres.
19. The Harbour at Rodney Bay, Gros-Islet, St.Lucia (2004)
 Client: Tropical Homes Limited
 Project Budget: \$EC18M
 Responsibility: Design and Supervision. Structural design of all three-storey structures, including 15 3-bedroom and 4-bedroom condominium units. These structures include the use of a moment-resisting reinforced concrete frame with shear walls incorporated into the design. Assistance with design of foundations comprising the use of steel pipe piles, ground beams and pile caps. Evaluation of steel and fiberglass sheet pile walls, and concrete-filled steel pipe piles for reinforced concrete (precast and cast in situ) boardwalk.
20. Basic Needs Trust Fund, St.Lucia (2004-Present)
 Client: Caribbean Development Bank
 Role: Consultant to CDB to undertake design, supervision and contract administration of various sub-projects.
 Sub-projects:
- Anglican Infant and Primary School Refurbishment (2004)
 - Green Bay Drainage (2005)
 - Adult Care Centre, La Clery, Castries (2007)
 - Bishop's Gap Footpath, Marchand, Castries (2009)
 - Cornerstone House Rehabilitation (2010)

The University of the West Indies

2006

*Demonstrator: Structural Analysis and Design in the
 Department of Civil Engineering*

Final Year Projects Presentations Marker

2006-2007

DIWI Consult International GmbH

2002 - 2004

Assistant Resident Engineer

Full Time

Project: Road Development Programme Contracts 1 and 2

Client: Ministry of Communications, Works, Transport and Public Utilities

Funding Agency: Caribbean Development Bank

Project Description: Complete road reconstruction from
 Soufriere to Vieux-Fort, St.Lucia

Responsibilities:

- Supplementary design and supervision of new bridge construction for River Doree Bridge consisting of two 13m spans using prestressed concrete girders, reinforced concrete foundation, abutment walls, piers and deck slab. Design of scour protection.
- Supplementary design and supervision of bridge rehabilitation works to Black Bay Bridge including works to the bridge deck and scour protection.
- Supplementary design and supervision of Choiseul Bridge consisting of deck widening by the addition of one steel girder, extension of existing and construction of new foundation, works to deck and scour protection.
- Supervision of Myers Bridge – a 3.8m x 3.8m reinforced concrete box culvert.
- Design and supervision of double box culvert across Saphyr River.
- Design and supervision of new culverts and extensions to stone masonry and reinforced concrete box culverts including inlet and outlet structures, culvert outfalls, erosion protection works to be done and drainage tie-in details.
- Design of slab-bridge in Soufriere.

Metro Construction Limited

2001

Project Manager

Full Time

Project: La Place Carenage Duty Free Shopping Centre Extension;

Concrete encased steel frame building on end-bearing steel H-piles on reclaimed land

Client: St.Lucia Air and Seaports Authority

Consolidated Engineering

2000 - 2001

Civil Engineer

Full Time

Projects:

1. Bordellais Correctional Facility, Dennery, St. Lucia
Client: NIPRO
Responsibility: completing of design work and bending schedules for five structures
2. Vieux-Fort Multipurpose Courts, Vieux-Fort, St. Lucia
Client: NIPRO
Responsibility: complete structural design and some supervision during construction
3. Vieux-Fort Police Station, Vieux-Fort, St. Lucia
Client: NIPRO
Responsibility: complete structural design of reinforced concrete frame, timber roof trusses, water tank and all other structural elements

PERSONAL PROFILE

Name: Akhnaton Stephen Imhotep St.Rose

Date of Birth: 28th May, 1978

Place of Birth: Trinidad

Nationality: St. Lucian / Trinidadian

Marital Status: Single