

## SIVAPATHAM VIGNESWARAN

### MECHANICAL ENGINEER (MEP)

Doha, Qatar.

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#### Key Skills

-  Detailed Engineering
-  Design Engineering
-  Project Management
-  Installation & Commissioning
-  Good Document Practice (GDP)
-  Fabrication Drawings
-  Team Management














#### Knowledge & Certification

-  MS-Office
-  Auto-CAD
-  Solid works
-  Revit MEP
-  MS Project
-  Primavera P6

#### Personal data

Date of Birth	31 <sup>st</sup> July 1990
Sex	Male
Nationality	Sri Lankan
Marital Status	Single
Languages	
i. Tamil	Native proficiency
ii. English	Professional working proficiency
iii. Sinhala	Professional working proficiency
Passport No.	N5294752
No. of Dependents	6
VISA Details	Resident permit with NOC

#### PROFESSIONAL SUMMARY

-  A Mechanical Engineer with more than 5 years' experience in MEP engineering includes 2 years in Singapore & 3 years as a Senior Project Engineer in Altair Sri Lanka.
-  Adapt in chilled water system ,FCU's, AHU, Air and water cooled chillers, Cooling towers ,Heat Exchangers packages(PHE), roof top units it's electrical system requirement And Firefighting like Fire pipe lines , Pumps, sprinkler ,landing valve ,Fire panels ,Fire Detection accessories and Fire passive & Active system
-  Prepare the Execution & monitoring, testing and commissioning of all MEP system like HVAC, Plumbing (Drainage, water supply, pumps...etc.), Firefighting, Complete Electrical system as per compliance with the plan shop drawing, specification, and standard.
-  Pre-contract and Post contract Activities Like Measuring/working out quantities and preparing BOQ
-  Skills in preparing technical room data sheets, HVAC heat load calculations based on ASHRAE, NFPA and other international codes & standards.
-  Possess sound knowledge of designing tools like AUTOCAD, Revit MEP, Carrier Psychometric Analysis, Mac Quay Duct Size calculations.
-  Ensuring that all civil obstructions have been cleared to HVAC, FPS, PHE contractors to proceed with all activities.
-  Ensure in harmonious working relation between contractors and to the consultant, understanding that open communication and team work are to be promoted and that adversarial management style will be detrimental to the project.
-  Monitoring works as per specification, approved shop drawing approved method statement, OEM manual, local & international codes.
-  To ensure safety standards and procedures are implemented and followed in accordance with contract requirements and Company guidelines.
-  Talented and managing multi-cultural team members and developing high performance teams
-  Confident in managing on-site teams, Strong technical capabilities including a focus on ensuring projects conform to current legislative guidelines
-  Hands on experience different types of projects for example commercial, high rise, institutional & industrial Air-Conditioning projects.

## EDUCATIONAL QUALIFICATIONS

1. Project Management Solutions, Sri Lanka, **Project Management Professional (PMP) Preparation Training Program**, Year of Attempted: 2018.
2. Institution of Engineers, Sri Lanka, **Continuous Professional Development for Air Conditioning System Design**, Year of Attempted: 2017.
3. Institution of Engineers, Sri Lanka, **Continuous Professional Development for Design of Fire Protection & Detection System**, Year of Attempted: 2016.
4. University of Peradeniya, **B.Sc. Engineering Specialized in Mechanical Engineering**, Year of Pass out: 2014.
5. The Academy Institute, Sri Lanka, **Mechanical Electrical Plumbing Drafting Practice**, Year of Attempted: 2014.
6. The Academy Institute, Sri Lanka, **Mechanical Electrical Plumbing Quantity Surveying Practice**, Year of Attempted: 2014.

## INDUSTRIAL EXPERIENCE

**Since Sep. 2016 – Dec. 2018** Nawaloka MEP Concept (Pvt) Ltd. in Sri Lanka.  
Senior Project Engineer (MEP).

### Projects involvement

Altair Colombo Residential Towers Project Sri Lanka (ACMV WORK), 70 Stories Twin Tower, Central A/C System, 500TR X 4 Water Cooled Chiller

### Key Result Areas:

- ✚ Managing the engineering and project management of Heating, Air Conditioning, and Ventilation Systems Package
- ✚ Design and built Air Conditioning & Mechanical Ventilation systems.
  - ↳ Cooling load calculations & Equipment selections.
  - ↳ Ventilation, Duct sizing, & Pressure loss calculations.
  - ↳ Pump Selection, Pipe & duct routing, drawing & specifications which utilized software & other necessary tools
- ✚ Preparing and validating the P&ID's, Design Basis Report for various Air Conditioning & Ventilation systems
- ✚ Monitoring bid evaluation for technical specification for technical part as well as construction / erection part for execution, then proceeding towards the finalization of the contracts
- ✚ Liaising with the client by preparing / checking engineering drawings / documents, project progress monitoring & cost control by preparing the budget
- ✚ In-house designing of HVAC system by conceptualizing & implementing plans and ensuring accomplishment of the business goals across the assigned regions
- ✚ Coordinating with external agencies for techno-commercial negotiations, preparing tender / contract documents, cost estimates, schedule, variation / deviation proposals & settlement of claims
- ✚ Prepare method statement, shop drawings, installation / T&C check sheets, work progress report, and other relevant documents for M&E related works.
- ✚ Coordinating the HVAC work on site with the activities of inspection agencies through installation, testing, commissioning, handover and acceptance phases

**Oct 2014 to Aug 2016** International Sea & Land Engineering Pte Ltd. in Singapore  
MEP Engineer (HVAC Project in Sempawang shipyard)

### Project involvement:

[Sonangol Benguela, British Commerce & Depang Moon Vessel HVAC Project in Sempawang Shipyard]

### Key Result Areas:

- ✚ Supervising and installation experience in Ducts, FCU's, AHU's, Chillers, Cooling towers, Pumps, Chilled water pipes, Refrigerant pipes, & Drainage pipes.
- ✚ Organized the submittals required for the materials and ensured that they were in compliance with the specifications.

- ✚ Control and supervise workmen and subcontractors to make sure standards of building performance, quality, time and cost schedules, and safety are complied.
- ✚ Assigning of modification work according to site condition, and reporting (duct/ pipe rerouting) to Project Manager.
- ✚ Prepared the progress reports, handing over documents, and as built drawings.
- ✚ Experienced in Testing & Commissioning.

Worked as **Maintenance Engineer at Northern Power Plant** since Jan. 2014 to Sep. 2014 in Sri Lanka where the following duties were-carried out during the working period.

- ✚ Ensure that resources are used to optimum effect.
- ✚ Understand and operate in line with relevant legislation, company policy, and company procedures.
- ✚ Complete and maintain accurate, timely documentation and records as required by the business.
- ✚ Conforming to health and safety procedures and policies.

Worked as **Mechanical Engineer at State Engineering Corporation** since Feb. 2013 to Dec. 2013 in Sri Lanka where the following duties are carried out during the working period.

- ✚ Plan maintenance schedule and ensure contractors compliance to scope of work and schedule.
- ✚ Visit sites for equipment maintenance inspections.
- ✚ Collaborated with vehicle maintenance and improved my teamwork and communication skills.

#### TRAINED PROGRAMS LOCAL & FOREIGN

- ✚ Participated “URJAVARAN 2018-19” Theme: Climate Change & Emerging Solutions, from **ASHRAE Sri Lankan Chapter & ISHRAE**.
- ✚ Participated “The New ASHRAE Designing Guide for Tall, Mega Tall & Super Tall Buildings” Lecturer: **Prof. Peter Simmonds**, Ph.D. Lecture from **ASHRAE Sri Lankan Chapter**.
- ✚ Participated “How to Design Ammonia System Save and Safe?” Lecturer: **Dr. Apichit Lumlerpongpana**, Ph.D., P.E. Lecture from **ASHRAE Sri Lankan Chapter**.
- ✚ Participated “Finite Element Method; a Tool for Engineers” Lecturer: **Eng. Priyantha Sriwardene, PSE, MBA (MOT)**, Lecture from **Private Sector Engineers Society in Sri Lanka**.
- ✚ Participated “Get insights of Cold Insulation Basics and Flexible Elastomeric Foam (FEF) Insulation” Lecture from **Armacell**.
- ✚ Successfully Completed **3G Arc Welding Training in Singapore** (TCK Supplies & Services Pte Ltd)

#### PROFESSIONAL MEMBERSHIPS

- ✚ Associate member of Institution of Engineers, Sri Lanka (Membership no: AM-18836)
- ✚ Member of Project Management Institute , America (Member ID: 5586957)
- ✚ Associate member of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE, Membership no: MBR-8317584)
- ✚ Member of IMechE affiliation (Membership no: 80203836)

#### REFEREES

Available upon request

I hereby certify the information furnished above true and accurate to my knowledge.

Updated on 27<sup>th</sup> of Jan 2019

S. Vigneswaran (Bsc.Eng. AMIESL, AMASHRAE)