

Vijaykumar Palaniappan

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OBJECTIVE:

To pursue a responsible and challenging career as a Design Engineer in a growing organization where my knowledge can be shared and enriched which provides personal and professional growth and achievement.

CAREER AND JOB RESPONSIBILITIES SUMMARY:

Over 15+ years of Experience in Basic Engineering, Design & Detail engineering of Static Equipment's for Oil & Gas (**Offshore & Onshore**), Petro chemical, Chemical Refineries & Power sectors.

Current Employer: Alleima India Private Limited Hosur
Years of Exp.: 0.8 Months (from 18.04.2022 to till date)

Previous Employer: Micoda Process Systems International LLC) ALMANSOORI GROUP Abu Dhabi (United Arab Emirates)
Years of Exp.: 2.4 Years (from 17.11.2019 to 26.03.2022)

Previous Employer: Sandvik Asia Private Limited (Process Heating Systems.) Hosur.
Years of Exp.: 5.4 Years (from 24.04.2014 to 08.11.2019)

Previous Employer: HOLTEC ASIA (A Subsidiary of HOLTEC International, Pune)
Years of Exp.: 06 Months (from 16.09.2013 to 10.04.2014)

Previous Employer: Sandvik Asia Private Limited (Process Heating Systems.) Hosur.
Years of Exp.: 3.4 Years (from 10.05.2010 to 10.09.2013)

Previous Employer: M/s. PRECISION Equipment's Chennai Private Limited, Chennai.
Years of Exp.: 02 Years 10 months (from 20.06.2007 to 04.05.2010)

Current Employer: Alleima India Private Limited Hosur working as Assistant Manager- Design
Years of Exp.: 0.9 Years (from 18.04.2022 to till date)

Projects Worked and Responsibilities:

- ❖ Construction Code: ASME Section VIII Div. 1 2021 Edition.
- ❖ Preparation of Mechanical Design Datasheet & Technical Requisition for Pressure Vessel, Heat Exchangers & Storage Tank.
- ❖ Preparation of Material Purchase Specification (MPS) in line with Client Specification & ASME Code for Raw Material procurement (Pressure & Non-Pressure Parts)
- ❖ Time Management with Sub-ordinate Engineers for timely completion of Project.
- ❖ Preparation of Mechanical Design of Industrial Electric Heater, Pressure Vessels
- ❖ Preparing, Checking and review the UDR
- ❖ Support the Organization to achieve the company target as well as department.
- ❖ Co- Ordination with AI & TPI for review and get the approval of MDC & Drawings in line with ASME Requirements.
- ❖ Conversant with Mechanical design package for Pressure Vessel Heat Exchangers and Columns in PV Elite 2022 V24 (Latest Version) - Materials Handled CS, LTCS, SDSS, DSS, 6% Moly Alloy Stainless Steel (S31254), Inconel 625, Incoloy 825 Etc.
- ❖ Performing strength calculation of tube sheet as per UHX, Saddle support as per Zick analysis and TEMA and WRC 107/297.

Previous Employment & Designation: Working as Mechanical Design Engineer @ **Micoda Process Systems International LLC, Abu Dhabi. ALMANSOORI GROUP**
2.4 Years of Experience in (Pressure Vessel Design and Manufacturing Field) working as **Mechanical Design**

Engineer in Micoda Process Systems International.

Projects Worked and Responsibilities:

Micoda Process Systems International LLC – Abu Dhabi ALMANSOORI GROUP Responsibility

- ❖ Specialization in Mechanical Design & Detail Engineering of Pressure vessels, Heat exchangers & Columns, Drain Drum, knock out drum, Closed Drain Drum, Filter Vessels, Scrubber Vessel, 2160 PSI Separator & 1440 PSI Separator as per Client Specification and AS per ASME Latest Edition, TEMA Standards by using PV Elite 2022 Software (Version 24) & Auto Cad Latest Edition.
- ❖ Preparation of Mechanical Design Data-sheet & Technical Requisition for Pressure Vessel, Heat Exchangers, Storage Tank & Column.
- ❖ Reviewing and approval of Internals (Demister, Half open pipe etc.) pressure vessel, Reactor & Tank Internals.
- ❖ Involving and carry out ISO Internal / External audits.
- ❖ Preparation of Technical Delivery Condition (TDC) in line with Client Specification & ASME Code for Raw Material procurement (Pressure & Non-Pressure Parts)
- ❖ Time Management with Draftsman & sub-ordinate Engineers for timely completion of Project.
- ❖ Co-ordination with Drafting Team in developing Layout, GA, Detail & Procurement Drawings
- ❖ Participate in Kick of Meeting for both International and National Projects.
- ❖ Prepare Minutes of Meeting (MOM) during engineering discussion / clients/contractor/ vendor visit.
- ❖ Preparation of Mechanical Design Data-sheet & Technical Requisition for Pressure Vessel, Heat Exchangers & Storage Tank. & Specification Check List before starting the project.
- ❖ Feasibility studies for (static equipment Like Shell and tube Heat Exchanger, Pressure Vessels)
- ❖ Technical Coordination between Micoda design department and client/ consultant for the approval of the Design documents.
- ❖ Preparation of BOM for Material Requisition/RFQ to quote and secure the order.
- ❖ Conversant with Mechanical design package for Pressure Vessel Heat Exchangers and Columns in PV Elite 2022 V24 (Latest Version) - Materials Handled CS, LTCS, SDSS, DSS, 6% Moly Alloy Stainless Steel (S31254), Inconel 625, Incoloy 825 Etc.
- ❖ Performing strength calculation of tube sheet as per UHX, Saddle support as per Zick analysis and PD 5500, TEMA and local load calculation as per WRC 107/297.
- ❖ Complete drawing review namely General Assembly, Tube sheet layout, and Saddle details, Plate Layout, Nesting, Transport Sketch, etc.
- ❖ Preparation of Mechanical Design of Pressure vessels & Heat Exchanger at Proposal stage & post order confirmation stage to optimize and secure the order.
- ❖ Preparing, checking, reviewing and revising the drawings and Specifications before submitting to client for approval.
- ❖ Read & review the Customer Drawings to state the Deviations and get clarified with the customer.
- ❖ Co-ordination with Client, Vendor & Other Internal Departments & also act as a "KEY PERSON" in getting Design & Drawings Approvals.
- ❖ Providing Technical & Engineering back-up support to our Site Team during the Construction Stage.
- ❖ Obtaining "As-Built" information from the QA/QC Team, Review & if satisfied, passing to Drafting Team for preparation of "As-Built" Drawings.
- ❖ Preparing, Checking and review the UDR
- ❖ Prepare General arrangement drawing, vessel detail drawing by using **Auto cad 2021**
- ❖ Support the Organization to achieve the company target as well as department.
- ❖ Co- Ordination with AI for review the MDC & Drawings in line with ASME Requirements.

Previous Employment & Designation: Working as a Mechanical Design Engineer @ **Sandvik Asia Private Limited (Process Heating Systems.)** Hosur.

Years of Exp.: 5.4 Years of Experience in (Industrial Electric Heater Design and Manufacturing Field) working as **Design Engineer in Process Heating Systems under the Production Unit of (SANDVIK Materials Technology).**

Projects Worked and Responsibilities:

Sandvik Asia – Hosur

Years of Exp.: 5.4 Years (from 24.04.2014 to 08.11.2019)

1. Reliance LDPE LLDPE & DTA, SEZ - Jamnagar Project (Client – Reliance Industries Limited)
2. Air Liquide Global Solutions Qatar – 2667kW and 209kW Heaters
3. Petrofac - Kuwait National Petroleum Company (K.S.C.) Clean Fuel Project (CFP) Kuwait - Mina Abdullah Refinery
4. Petrofac Takatuf TAKATUF PETROFAC OMAN - Centre of Excellence Oman
5. ENOC Processing Company - (Client & Consultant – ENOC UAE)
6. BUMIARMADA - FPSO LEASE CONTRACT FOR MADURA STRAIT BD field DEVELOPMENT
7. TECHNIP - PETRONAS RAPID PROJECT PACKAGE 14 - UTILITIES, INTERCONNECTING, OFFSITE UNITS
8. RM GAZ- HAMITABAT CCPP
9. Technicas Reunidas - PETRONAS RAPID PROJECT (PACKAGE 3)
10. Technicas Reunidas - Kilpilahti Power Plant PROJECT
11. HENGYI INDUSTRIES SDN BHD- Hengyi (Brunei) PMB Petrochemical Project
12. JGC Corporation - The Bahrain National Gas Expansion Company (S.P.C.)
13. JGC GULF INTERNATIONAL CO. LTD - BAHRAIN NATIONAL GAS EXPANSION COMPANY (BNGEC)
14. Indian Oil Corporation Ltd. (Refineries Division)- INDMAX HY NAPHTHA DEEP DESULFURISATION PROJECT
15. BDEP and EPCM Services for TGTU Project @ BPCL Mumbai Refinery
16. EPCM Services for DHDT Project @ NRL Refinery
17. FEED and Basic Design Services for Low Cost Creeping Expansion of BORL, Bina
18. HOEC LTD. GGS ELECTRICAL HEATER (DIROK 5) DIROK GAS FIELD DEVELOPMENT, ASSAM
19. JBF Petrochemicals Ltd - JBF PTA Project at Mangalore
20. MULTITEX FILTRATION ENGINEERS LTD.
21. Air Liquide Global Solutions – Cryogenics Project
22. Reliance LDPE- Jamnagar Project (Client – Reliance Industries Limited)
23. Reliance Hexane - Jamnagar Project (Client – Reliance Industries Limited)

Responsibility in above Project

- ❖ Mechanical Design of the Industrial Heaters Shell and Tube Heaters (Medium Hydrogen, Hydrocarbon, oil, Nitrogen and Air, Fuel gas,) as per ASME and TEMA Standards using PV Elite Software (Version 2019).
- ❖ Participate in Kick of Meeting for both International and National Projects.
- ❖ Prepare Minutes of Meeting (MOM) during engineering discussion / clients/contractor/ vendor visit.
- ❖ Collect and issue the drawings & documents to the concerned department in line with Document List.
- ❖ Preparation of Mechanical design data sheet before starting the project.
- ❖ Feasibility studies for (static equipment Like Pressure Vessels, Industrial Electric heaters, Indirect & Direct Electric heaters.)
- ❖ Technical Coordination between Sandvik design department and client/ consultant for the approval of the Design documents.
- ❖ Design: Static Equipment design including Pressure vessels, Heat exchangers & Columns as per international codes like ASME, API 660.
- ❖ Preparation of Material Requisition/RFQ
- ❖ Providing Engineering supports to all departments.
- ❖ Complete preparation of General Arrangement Drawings, Fabrication drawings, Tube sheet layout, Tube bundle details, Saddle drawings and other related drawings.
- ❖ Complete drawing review namely General Assembly, Tube sheet layout, Tube Bundle drawings and Saddle details, Plate Layout, Transport Sketch, etc.
- ❖ Preparation of Mechanical details of Pressure vessels & Heat Exchanger at Proposal stage & post order confirmation stage.
- ❖ Checking of the General arrangement, Vessel detail, Heater bundle, baffle and terminal box drawings In line with Client Datasheet, Mechanical Design Cal
- ❖ Coordination with Internal Electrical Department and Instrumentation department.
- ❖ Preparation and submission of Proposal / Revision / As Built Drawings to customers / consultants for approval / appraisal.
- ❖ Preparing, checking, reviewing and revising the drawings and Specifications before submitting to client for approval.
- ❖ Read & review the Customer Drawings to state the Deviations and get clarified with the customer.
- ❖ Making Terminal Boxes and Bus bar Arrangement for maximum Kilo Watts 3.3MW for the Project: Air products U.K.
- ❖ Co-ordination with Client, Vendor & Other Internal Departments & also act as a "KEY PERSON" in getting Design & Drawings Approvals, FPQ & Approved Vendor Process for Engineering Consultants.

- ❖ Providing Technical & Engineering back-up support to our Site Team during the Construction Stage.
- ❖ Obtaining "As-Built" information from the QA/QC Team, Review & if satisfied, passing to Drafting Team for preparation of "As-Built" Drawings.
- ❖ Prepare General arrangement drawing, vessel detail drawing, Bundle drawing by using Auto cad 2014 & 2016 & Solid works 2015 & 2016 Software.
- ❖ Support the Organization to achieve the company target as well as department.
- ❖ Support the management for New Product Development Like Duct Heater, Air Heater

Previous Employment & Designation: **HOLTEC ASIA (A Subsidiary of HOLTEC International (A Generation Ahead by Design))** & working as **Mechanical Design Engineer** in Power Plant Component Division
Years of Exp.: 06 Months of Experience in (Boiler Feed Water Heater, Steam Surface Condenser, Shell and Tube Heat Ex-Changer Design and Manufacturing Field.)

COMPANY PROFILE:

HOLTEC Engineering Division (HED), Located in Pune, and also the HOLTEC Manufacturing Division (HMD), located in Turtle Creek, PA, is one of the largest manufacturing plants in the U.S. Holding all ASME Code stamps [N (Nuclear Components), N3 (Transportation/Storage Components), NPT (Nuclear Partial), R (Vessel Repair), and U (Pressure Vessels and Heat Exchangers)] and ISO 9000 certifications, HMD's 350+ workers and staff manufacture its capital equipment for HOLTEC Nuclear power Plants, Solar Power Plants and fossil power plants around the globe. HMD's state-of-the-art manufacturing processes enable Holtec to achieve repeatable levels of high-quality results. The Company has manufactured like Boiler Feed Water heater, and Air Cooled and Water-Cooled Condenser, Component Cooling Water Heat Ex-changer, Preheaters, Super heaters Shell and Tube Heat Ex-changer that are essential for Plant Operation.

Projects Worked and Responsibilities:

Holtec International – Pune

Years of Exp.: 06 Months (from 16.09.2013 to 10.04.2014)

- 1. 4000MW Project (5x800MW) NTPC's Chhattisgarh project BGR will Provide 2x800MW-** (Client – BGR Energy Limited & Consultant – Tata Projects Limited Bangalore)
- 2. 2,640MW Jeddah South Thermal Power Plant Project** - (Client Hyundai Heavy Industries Co., Ltd. (HHI),

Responsibility in above Project

- ❖ Mechanical Design and Modeling of the Boiler Feed Water Heaters & Shell and Tube Heat Ex-changer (Medium Steam, Water, Air) as per ASME and TEMA Standards by using **Solid Works Software**.
- ❖ Preparing Thermal Expansion Co-Efficient for various Materials.
- ❖ Preparing the Allowable Stresses for Various Material and Temperatures
- ❖ To find a Volume of Heaters to finishing the sizing Calculation for Piping
- ❖ Participate in Minutes of Meeting for both International and National Projects.
- ❖ Checking of the General arrangement, Vessel detail, Heater bundle, Tweeners, End Plates, Channel assembly, and Air Channel Assembly Details Etc.
- ❖ Making 3D Drawings for the Model of Boiler Feed Water Heaters and Steam Surface Condenser using **Auto cad Software**.
- ❖ Make the SDI (Supplier Document index) and Co-ordinate with all the Department to get all the Documents and Submit Client as per the Scheduled time and Date
- ❖ To prepare the Model of Steam Surface Condensers (all the Types) by using the **Solid Works Software**.

Previous Employment & Designation: in Mechanical Design and Engineering Department
Sandvik Asia Private Limited (Process Heating Systems.) Hosur.

Years of Exp.: 3.3 Years of Experience in (Industrial Electric Heater Design and Manufacturing Field) working as a **Design Engineer in Process Heating Systems under the Production Unit of (SANDVIK Materials Technology).**

Projects Worked and Responsibilities:

SANDVIK Asia Pvt. Ltd

Years of Exp.: 3.4 Years (from 10.05.2010 to 10.09.2013)

- 1. PARADIP REFINERY PROJECT (PDRP)** - (Client - IOCL & Consultant –Foster Wheeler India)

2. ENOC Processing Company - (Client & Consultant – ENOC UAE)
3. ESSAR Oil Refinery Expansion Project - (Client & Consultant – ESSAR INDIA)
4. VME Process FPSO PROJECT - (Client – VME Process Malaysia and USA & Consultant – KAVIN Consultancy)
5. SABAH OIL and GAS Terminal (SOGT) Project (Client & Consultant – SAMSUNG Eng. Co Ltd - Korea)
6. SEVAN Marine Fuel Gas and Oil Treatment Project - (Client & Consultant - SEVAN Marine Norway)
7. Air Products U.K GENT ASU IV Project - (Client & Consultant - AIR PRODUCTS PLC, UK & AKER POWER GAS PVT, LTD)
8. Global Process System Singapore FPSO BERANTAI FUEL GAS PACKAGE – (Client & Consultant - Global Process System Singapore)
9. Daelim international Co. Ltd. Korea - (Client & Consultant – Daelim-Korea)
10. Process Group Abu Dhabi - (Client & Consultant – Process Group)

Responsibility in above Project

- ❖ Mechanical Design of the Industrial Shell and Tube Heaters (Medium Hydrogen, Hydrocarbon, oil, Nitrogen and Air, Fuel gas,) as per **ASME and TEMA Standards** using **PV Elite Software** (Version 2013).
- ❖ Participate in Kick of Meeting for both International and National Projects.
- ❖ Technical Coordination between Sandvik design department and client/ consultant for the approval of the Design documents.
- ❖ Checking of the General arrangement, vessel detail, heater bundle, baffle and terminal box drawings.
- ❖ Making 3D Drawings for the Ex`d` and Ex`e` Heaters for Catalogue.
- ❖ Preparing, checking, reviewing and revising the drawings and Specifications before submitting to client for approval.
- ❖ Read & review the Customer Drawings to state the Deviations and get clarified with the customer.
- ❖ Making Terminal Boxes and Bus bar Arrangement for maximum Kilo Watts 3.3MW for the Project: Air products U.K.
- ❖ Co-ordination with Client, Vendor & Other Internal Departments & also act as a “KEY PERSON” in getting Design & Drawings Approvals, FPQ & Approved Vendor Process for Engineering Consultants.
- ❖ Providing Technical & Engineering back-up support to our Site Team during the Construction Stage.
- ❖ Obtaining “As-Built” information from the QA/QC Team, Review & if satisfied, passing to Drafting Team for preparation of “As-Built” Drawings.

Previous Experience in Mechanical Design and Detail Engineering Dept. of

M/s. PRECISION Equipment’s Chennai Private Limited

Years of Exp.: 3.6 Years of Experience in (Shell and Tube Heat Ex-Changer Design Field)

Working as a Senior Draughtsman in Design Department in M/s. **Precision Equipment’s** Chennai Pvt. Ltd., has an ASME 1U’ Stamp Shop and the company is ISO 9001:2000 Certified. The Company manufactures Critical Process Equipment’s like Shell and tube heat Exchangers, Pressure vessels etc. for Refineries, Fertilizers, Power plants, Nuclear and Space industries. The Company employs above 500 people and has a turnover of USD 50 million.

Projects Worked and Responsibilities:

PRECISION Equipment’s Chennai Pvt. Ltd.

Years of Exp.: 02 Years 10 months (from 20.06.2007 to 04.05.2010)

1. **EIL**, New Delhi – PHASE-III REFINERY PROJECT for IOCL.
2. **PUNJ LLOYD**, - Gurgaon – MSQ UPGRADATION BARAUNI REFINERY for IOCL.
3. **UHDE India**, Pune. – MSQ UPGRADATION DIGBOI REFINERY for IOCL
4. **LINDE AG & LINDE ENGINEERING**, Barado- HYDROGEN GENERATION UNIT
5. **LITWIN PEL L.L.C ABU DHABI**- IMPLEMENTATION OF OPERATIONAL IMPROVEMENT TO PROCESS UNITS (U – stamp Job.)
6. **MRPL** Mangalore – GOHDS REVAMP PROJECT
7. **MRPL** Mangalore- CDU/VDU OFC LPG TREATING & ATF TREATING UNITS
8. **JACOBS ENGINEERING**. - CDU/VDU OFC LPG TREATING & ATF TREATING UNITS
9. **FOSTER WHEELER** -EPCM-4 INMAX (FCC) & PRU-PDRP PROJECT for IOCL
10. **HMEL** Mangalore- CDU/VDU OFC LPG TREATING & ATF TREATING UNITS.
11. **SAMSUNG ENGINEERING LTD.** UAL FEED CRACKER UNIT & ASSOCIATED UNITS for ONGC PETRO ADDITIONS LTD.
12. **LINDE ENGINEERING LTD.** OLEFIN PLANT, ETHANE CRACKING ETHYLENE PALANT-EU3 (U – stamp Jobs)

Responsibility in above Project

- 1 Preparation of Bill of Materials & Cutting Plan Diagram.
- 2 Preparation of Weld maps, Final Dimensional reports and piece part drawings.
- 3 Preparation of General Notes in guidance with Technical Director.
- 4 Co-ordinate with colleagues in Project completion as per schedule.
- 5 Organizational interfaces with other departments. Preparation of drawings, tracing and blue prints.
- 6 Preparation of Setting Plan Drawings. Preparation of IBR Drawings.
- 7 Preparation of as built Drawings. Maintaining all the design documents.
- 8 Preparation and Submission of Proposal / Revision / As Built Drawings to customers / consultants for approval / appraisal.
- 9 Receiving customer/consultant / other Department comments and incorporating in the Drawing as Next Revision and Getting Approval.

CLIENT & CONSULTANT INTERACTED WITH

I. SAMSUNG – Korea **II.** Global Process System – Singapore **III.** ENOC – UAE **IV.** AIR PRODUCTS - UK **V.** ESSAR **VI.** Indian Oil Corporation **VII.** BOC **VIII.** Air Liquide **VI.** SEVAN MARINE - Norway **VII.** VME Process USA **VIII.** Foster Wheeler **IX.** Engineers India limited **X.** Linde Engineering. **XI.** Petrofac **XII.** Litwin

EDUCATIONAL QUALIFICATIONS:

- 1 **Diploma in Mechanical Engineering** from Anna University (PGP Collage of Engineering- Namakkal.) with **89% (Distinction)** marks in the year 2006.

SPECIAL FEATURES:

- 1 Familiar with relevant codes and Standards like TEMA, API, IBR, EIL, PDIL, LITWIN, SAMSUNG, TECHNIMONT, FOOSTER WHEELER, LURGI etc.
- 2 Sound Knowledge in Auto Cad 2021, PV-Elite 2022 V24, and Pro-E & MS Office.
- 3 Compatible for working in a Team as well as independently.
- 4 Knowledge in Solid Works-2013.
- 5 Proactive with good Communication Skill.
- 6 Basic knowledge of Piping Design like Review of P&ID & Isometric Drawings.
- 7 Familiar with emails & Internet usage.

PERSONAL DETAIL:

1. Date of birth : 11-01-1987
2. Father's name : V. Palaniappan
3. Qualification & Branch of study : D.M.E (Mechanical Engineering)
4. Mobile : +91 8870142037
5. E-mail : vijayk376@gmail.com
6. Languages Known : English, Tamil
7. Residence : Namakkal
8. Pass Port Details : **V8740363 Validity up to 09/03/2032**

DECLARATION:

I hereby assure that the information's furnished above are true to the best of my knowledge and belief.

Place: Hosur (UAE)
Date: - 14th Dec 2022

Yours faithfully
Vijayakumar Palaniappan