

CURRICULAM VITAE

T.CHAITANYA SAI,

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To be effective and efficient in working as a team member, fulfilling the goals assigned to the team, and to build the career in a competitive environment with committed and dedicated people.

Resume Summary:

Sr. Mechanical Engineer – With more than 8 years of work experience in Project Management, Design & Quality Control field's in Oil & Gas Sector.

Hands-on experience in FEED, Project Schedule Preparation, Design of Storage Tanks, Pressure Vessels With “U” Stamp, Process Pipelines & Plant Layouts. Vast experience in Site & Workshop Fabrication, Inspection “NDT Testing, WPS, WQT & Quality Control Documentation”, Erection, Installation & commissioning activates for Pressure Vessel, Storage Tanks, Heat Exchangers (shell & tube) and Product / Firefighting / Cross-country Pipelines.

Discipline: B.E - Mechanical & Production.

Educational Qualification:

Course/Year	Name of the Institution	Board/University
S.S.C 2002-2003	Oxford Grammar School, Hyderabad, Andhra Pradesh.	State board
H.S.C 2003-2005	New Generation Junior College, Hyderabad, Andhra Pradesh.	State board
B.E 2005-2009	Sathyabama University, Chennai, TamilNadu.	Sathyabama University

Area of Interest:

- Detail design of pressure vessels as per ASME sec viii Div. 1 & 2 Std.
- Detail design of oil storage tanks as per API 650 std.
- Detail design of process piping as per ASME B31.3 & Gas Transmission & Distribution Piping ASME B31.8.
- Preparing equipment GA drawings, piping layouts, and isometric drawings.
- Preparing oil & gas - operation and storage terminals plant layouts as per OISD – 118.
- Handling fabrication, erection & installation activates of process plants.
- Quality control & inspection of pressure vessels, storage tanks, process pipelines.
- Testing & Commissioning of equipment like pressure vessels, heat exchangers, storage tanks.
- Non-destructive testing (NDT), welding, corrosion control, painting & HAZOP (hazard & operability studies).

Technical Qualification:

- **Post Graduate Diploma in Pipe Stress Analysis Using Intergraph CAESAR II, As Per ASME B31.3.**
- **American Society of Non-Destructive Testing (ASNT), Date of Issue: 15.02.2010.**
 - ✓ Ultrasonic Testing (Level-II)
 - ✓ Magnetic Particle Testing (Level-II)
 - ✓ Liquid Penetrate Testing (Level-II)
 - ✓ Radiography (Level-II)

Tools & Packages:

- AutoCAD, SolidWorks, CAESAR II, PV-Elite, Intergraph TANK, Microsoft Office, Microsoft Project, Adobe Photoshop, Basics in SAP.

Working experience:

➤ April 2016 to till date

- ✓ Working as Project Design Engineer in Syarikat Steelcon Sdn Bhd. - Kuala Lumpur, Malaysia.

Major Activities Handled:

- Detail Engineering of Pressure Vessels, Storage Tanks, Process & Distribution Piping as per ASME SEC VIII Div1, API 650, ASME B31.3 & B31.8 (PV-Elite, TANK, CEASER II & Manual Calculation)
- Preparation of Mechanical Datasheet, Technical Specifications, and Material Requisition for Static Equipment's, Pipes & Pipe Fittings.
- Review and approval of vendor's Static Equipment Design Calculations and Drawings as per codes and purchaser standards.
- Assisting in ASME audit for the "U" stamp certificate renewal to fabrication unit.
- Materials take-off preparation, Coordinate with production department, client, and TPI.
- Involved in Process piping calculation (i.e. pipe sizing, wall thickness, stress analysis) ASME B31.3 Std.
- Structural Skid drawings & design using AutoCAD & SolidWorks analysis Software.
- Perform all daily inspection activates necessary to achieve the quality of construction required in the drawings, specifications. Responsible for the closure of NCR.
- Review of Inspection test plan, WPS & PQR in accordance with codes and purchaser standards.
- Extend Support to site/shop crew during fabrication and construction.

Projects Involved:

- Client: INDEPENDENT TECHNOLOGY SDN. BHD. (Owner: Hammer Engineering Sdn. Bhd.): Detail design of Pressure Vessel (Dry Gas Filter's - 2Nos) Using ASME VIII DIV 1 2015Ed.
- Client: ISGEC HEAVY ENGINEERING LTD, Bharuch (Owner: Jimah East Power Sdh. Bhd): Design Review & Approval of Pressure Vessel (Blowdown Tank) calculation as per ASME VIII DIV 1.
- Client: PROSERNAT (Detail Engineering L&T - Chiyoda Ltd; Owner: FARABI YANBU Petrochemicals; Saudi Arabia): Review Design Calculation for Fuel Skid & Piping of GAD Charge Heater (like Pipe Load Calculation, Pipe Loading Data Drawing, Base Frame Structural Analysis).
- Client: NASMINE TECHNOLOGIES: Detail design of Holding Pressure Vessels with Jacket - 4Nos as per ASME VIII DIV 1
- Client: I.T.T. SpA - Milano - Italy (Owner: Indian Oil & Project: BS-VI Project for Gujarat Refinery): Review Thickness Calculation as per ASME B 31.3 & Drawings.
- Client: GASCO (Owner: Synthomer Sdn. Bhd.): Detail design of Above Ground Double Wall Diesel Storage Tank - 1No of Capacity 10,000 Liters as per UL-142 Std.
- Client: TOSHIBA (Owner: Jimah East Power Sdh. Bhd. Malaysia): Detail design of CONDENSATE WATER CONE ROOF STORAGE TANK - 2Nos of Capacity 1000M3 Each (11.6M Dia X 11.5M HT) As per API 650 Std.
- Client: INDEPENDENT TECHNOLOGY SDN. BHD. (Owner: Petronas Gas Berhad; Johor): Detail design of Pressure Vessel's (Dry Gas Filter - 2Nos) Using ASME VIII DIV 1 2015Ed.
- ASME audit for the "U" Stamp Certificate Renewal: - Detail Design of Pressure vessel as per ASME Sec VIII Div-1 (Using PV-elite, Manual Calculation & Details drawings using AutoCAD.)

- Client: - ITT SPA Italy (Owner: Middle East Kimiaye Pars Company): Perform all daily inspection activities necessary to achieve the quality of construction required in the drawings, specifications and inspection test plan & also Preparing MDR & QC documents like inspection Reports, non-compliance reports and Shop instruction/observations, raising NCR's & Responsible for the closure of Non-conformance.
- Client: - Boustead International Heaters Ltd. (Owner: Ford, Bacon, & Davis / Motive): Perform inspection activities necessary to achieve the quality of construction required in the drawings, specifications, and inspection test plan.
- Client: GASCO (Owner: AMEC Foster Wheeler): Review and Approval of Static Equipment design calculations & drawings for Hot Oil System Package (U Stamp).

➤ October 2015 to March 2016

- Worked as a Sr. Engineer - Project & Quality Control in Gulf Lubes Malaysia Sdn Bhd. - Port Klang Free Zone, Malaysia.

Involve in Fabrication, Installation, Erection & Commissioning activities for **250,000MT/Year Biodiesel plant** Project.

Major Activities Handled:

- Manage activities at the site as per the plan and monitor quality related activities of the project.
- Erection, Installation, Inspection & commissioning activities for Columns, Pressure vessels, Equipment, Pumps & pipelines (i.e. Product, Steam & Firefighting).
- Manage fabrication, welding & painting works as per the Quality Assurance & Inspection Plan.
- Implement the QA/QC management system at the site and verify that the quality related site activities are in accordance with the applicable codes and standards.
- Witnessing Welder Quality Test as per welding procedure Specifications.
- Hydro testing & Commissioning activities for pipelines & Pressure vessels.
- Preparing Petroleum Products Storage Tank Terminals Layouts as per **OISD – 118 Std.**
- Design of Atmospheric Storage Tanks as per API 650 Std. Preparing MTO & Cost Estimation details.
- Preparing Piping Layouts for overall plant (i.e. for Product, Steam, Firefighting & Utility pipelines)

➤ April 2013 to Sep 2015.

- ✓ Worked as Sr. Mechanical Engineer in AEGIS Logistics Limited, Pipavav – Gujarat. Involve in **expansion project of bulk liquid terminal of 1,20,000 KL and 2,700 MT of the gas terminal.**

Major Activities Handled:

- Quality Control & Inspections at Pre-Fabrication, Welding, Assembly and Erection Stages.
 - Fabrication, Erection, Installation of **Horton Spheres as per ASME Sec VIII - 2Nos** for propane storage (Sphere Shell plate thickness 52MM & 18Meter dia each).
 - Fabrication, Erection of **Cone & Dome roof storage tanks as per API 650 Std** – 30Nos (From 7M dia to 26M dia & Height 20M)
 - Fabrication, Erection, Installation & Commissioning of **Dock line loading/unloading pipelines** - 4nos (SS Pipeline - 12" dia & CS coated pipes lines – 12" & 16" dia of distance 3100mts each).
 - Fabrication, Erection, Installation & Commissioning of **Rail Wagon loading/unloading pipelines** between railway tracks – 12" dia pipelines 2nos of length 650Meters Each.
 - Fabrication, Erection, Installation & Commissioning of Internal Piping such as **Product lines, Firefighting lines & foam lines.**
 - Pumps & Compressor Installation.
 - Shot Blasting & Painting Quality Inspection parameters for Tanks and Pipe Lines.

- Project Planning & preparing schedule chart using MS Project.
- Preparing MTO & Cost Estimation details.
- Preparing documents for Construction Procedures, WPS, PQR, and WQT.
- Inspection of welding using NDT methods like LPT, MPT & Radiography films Interpretation.
- Carry out Fabrication & Erection works, Coordinate with Contractors & TPI.
- Preparing 2D, Isometric & GA drawings for Pipelines, PFD & P&ID using AutoCAD.
- Pipe Stress Analysis Using CAESAR II for 12" & 16" SS & CS Pipelines 4000Mts each as Per ASME B31.3.
- Verifying Plant & Piping detail drawings (i.e. PFD, P&ID, Piping GA drawing, 2D, Isometric, Piping Layout & Plant Layout).
- Hydro testing of Pipelines, Storage Tanks, Pressure Vessels & Pigging operations for Pipelines.
- Check the measurement sheets and material reconciliation in Running account bills.
- Material quality inspection.

➤ April 2011 to March 2013.

- ✓ Worked as a Project Engineer in SICGIL Industrial Gases Ltd, Liquid Carbon dioxide manufacturing company in Chennai.

Major Activities Handled:

- Manage activities at the site as per the overall plan.
- Projects Schedule & Planning using MS Project.
- Preparing AutoCAD drawings for equipments like Heat exchangers, Pressure vessels & columns.
- Plant layout preparation & Piping drawing using AutoCAD.
- Fabrication of Equipments like Columns, Pressure Vessels, Heat Exchangers.
- Inspecting welding quality (QC) of Heat Exchangers, Pressure Vessels & High-Pressure Piping.
- Radiograph film Interpretation for Pressure Vessels, Heat Exchangers & pipelines.
- Bill of Materials Preparation & Cost Estimation of the Projects.
- Fabrication, Erection, Installation & Commissioning of CO2 Plants.
- Pneumatic & Hydro testing for Heat Exchangers, Pressure Vessels & High-Pressure Gas Line Piping.
- Sand Blasting for bullet tanks.
- Automation Equipment & Instruments Installation. (Control valves, level & pressure transmitters etc.)
- Foundation works for Office buildings, Compressors, Cooling Towers, Structures as per civil drawings with respected Concrete Mixing Ration.
- Plant running operation.
- Co-ordination with contractors & workers.

Projects Involved:

- 1 Ton/Hour Portable Production Plant Project (TN): - Worked as a Project In-charge Portable 1Ton/Hour Production Plant Project for Kenya.
- SICGIL Refilling Station Project (TN): - Worked as a Project In-charge for a period of 5months in Refilling Station Project at Coimbatore Plant.
 - Fabrication, Erection & Quality Control of Mechanical Structures, Columns, Pressure Vessels & High-Pressure Piping.
 - Sand Blasting & Painting for Pressure vessels & Storage Tanks.
 - Foundation works of Office Building, Equipment's, Compressors, and Pumps.
- Natural Sugars 1Ton/Hour Production Plant Project (Maharashtra): - Worked as a Project In-charge for a period of 8months, where handling jobs like Manage activities at the site while plant erecting as per schedule. Fabrication and quality control of Equipment's like Heat exchangers & Pressure Vessels.

Project Schedule Planning, Plant Layout Preparation, BOM Preparation for Structure Material, Pipelines, Pipe fittings and Instrumentation equipment's. Foundations preparations at the site for Compressors other equipment's as per civil drawings.

- SICGIL 1Ton/Hour Production Plant Updating Project (AP):- Worked as a Project Engineer for Fabrication, Erection, Installation & Commissioning of CO2 plant & Involved in Plant Operation for a period of 1month.
- SICGIL 4Ton/Hour Production Project (UP):- Worked as a Project Engineer for Erection, Fabrication, Installation & Commissioning of the plant for a period of 6months & Involved in Plant Operation.
- SICGIL 1Ton/Hour Production Plant (Chennai):- Involved in plant operation training for a period of 15days. (Acquired required knowledge regarding Plant Operation).
- SICGIL 2Ton/Hour Production Project (GOA):- Worked as a Project Engineer for instrumentation Equipment Installation like Control Valves, Level & Pressure Transmitters & Commissioning for a period of 1month.

➤ May 2009 to March 2011

- ✓ Worked as an Inspection Engineer in SVL Engineering Services (P) Limited, EPC for Oil & Gas in Chennai.

Major Activities Handled:

- Design of (API 650) Storage tanks.
- Fabrication & Erection of dome & cone roof storage tanks.
- Tank bottom, angular, Shell & roof plate's drawings using AutoCAD.
- Plot Plan, Piping layout preparation, PFD and P&ID drawings preparing using Auto Cad.
- Radiograph film Interpretation.
- Study and analyze the tender documents.
- HAZOP Study.

Projects Involved:

- RAJ PETRO SPECIALITIES PVT.LTD – Fabrication and Erection of cone roof Storage tanks & installing the Radar level gauges for 11 Custody storage tanks. Using Rosemount 5402 series gauge and preparation of its mechanical study drawings using AutoCAD.
- BGR ENERGY SYSTEMS LTD (Oil & Gas Equipments Division) – Pre-Fabrication of storage tanks (Dia. 34 X 12 Mtrs Ht. – 4 nos, Dia. 22 X 12 Mtrs Ht. – 4 nos).
- BGR ENERGY SYSTEMS LTD (Oil & Gas Equipments Division) – Involved in HAZOP (Hazard & Operability Studies) for AL MANSURIA Gas Field Development Project, Iraq & AKAS Gas Field Development Project, Iraq

Key Skills

- Pressure Vessel Design as per ASME Sec 8 Div – 1 & 2.
- Design calculations for Oil storage tanks using API 650 & Cost Estimation of the storage tank.
- Familiar with International Design & Inspection Standards like ASME B 31.3, ASME Section VIII, API 650, ASME Section V, ASME Section IX.
- Knowledge in PFD, P&ID, Plot plan, Equipment Layouts, Piping layouts, Piping Isometric Drawings & Equipment drawings.
- Knowledge of Piping & Components Stress Analysis Using CAESAR- II.
- Knowledge in Pressure design of Process Piping and Component as per ASME B31.3 [Straight Pipe, Flanges, Elbows and Miter bends, Reinforced branch connections, Blanks Blind flanges, Expansion joints].
- Project Planning, Quality Control & Quality Assurance, Welding Technology & Welding Inspection.
- Inspection using Nondestructive testing methods as per standards.
- Fabrication procedure, erection sequence, quality procedure & inspection methods.
- Good Knowledge of Fabrication and Erection Works.

Strengths

- Communication & Team Work Skills
- Initiative & Self Motivated
- Positive Attitude
- Strong Work Ethic
- Goal Oriented
- Organization Skills

Personal Profile:

- **Name** : T. CHAITANYA SAI
- **Father's Name** : T. HARANADH
- **Age** : 29 years
- **Date of Birth** : 24/05/1987
- **Marital Status** : Married
- **Languages Known** : English ,Telugu, Tamil & Hindi
- **Passport Number** : H5161623
- **Permanent Address** : Flat-no 301, Preetham apts, Street no-13, Himayath Nagar,
Hyderabad, Andhra Pradesh. Pin-500029

Declaration:

I hereby declare that the particulars of information and facts stated herein above are true and complete to the best of my knowledge and belief.

Place :

Signature

Date :

(T. CHAITANYA SAI)