

VEMAGIRI AKHIL BABU

+91 7732058197

vemagiriakhilbabu@gmail.com

www.linkedin.com/in/akhil-vemagiri

CAREER OBJECTIVE

To pursue a challenging career as a Senior Design Engineer in a professional work-driven environment where I can utilize my well-rounded developed skills in Mechanical Design and Product Development.

PROFILE SUMMARY

- B.Tech. (Mechanical Engineering) with 4.6 years of hands-on experience as a Mechanical Design Engineer.
- Proficient in Conceptual 3D designing, drafting/2D drawings of Sheet metal, Weldments, Plastics, Castings, Mold design parts and assemblies by using various CAD tools.
- Good understanding of manufacturing process, tooling specifications, and carrying out hand calculations.
- Capable of applying GD & T and Tolerance stack-up analysis as per the requirement.
- Profound knowledge in drawing standards (ISO, ASME, ASTM) and weld symbols as per AWS standards.
- Strong in implementing Lean Six Sigma methods to increase the quality of drawings and BOM.
- Possesses strong interpersonal skills, leadership skills, and problem-solving abilities.

WORK EXPERIENCE

❖ **Design Engineer (ER&D Dept.) at Tata Technologies Ltd, Jamshedpur from November 2022 to Till date.**

❖ **PROJECT-1: Iron Ore Processing Plant (IOPP), Tata Steel Ltd (Joda & Noamundi)**

- The core duties are designing and detailing Material Handling systems i.e., Conveyors and other Plant-related Equipment.
- Performs designing of Plant Layout, Conveyor design, Chute design, and Bin design as per the Client's requirement.
- Generates 3D Models, Subassemblies, Assemblies, and detailing of Conveyors, Pulleys, Idlers, Stringer Frames, Skid Frames, Surge Hoppers, Pressurised Tanks, and Rail Wagons by utilizing **Autodesk Inventor and CREO**.
- Creates i-parts, i-assemblies, and parametric part families to increase productivity.
- Importing 3D models in **Autodesk Navisworks** for Virtual commissioning i.e., to visualize the project how would it look like before it was ever built, and to view existing facilities in 3D platforms.
- Creating **.nwc, .nwf, and .nwd** files for performing clash-check with other disciplines.
- Utilizing **Autodesk Vault** for data management i.e., creation of folders with proper check-in & check-out in the vault server for periodical maintenance of updated models and drawings.

❖ **Design Engineer (PES Dept.) at Pennar Industries Ltd, Hyderabad from October 2021 to November 2022.**

❖ **PROJECT-1: Integrated Slick Line Unit, Specialized Oilfield Products LLC., Abu Dhabi.**

- The core duties are designing and drafting Wire line Equipment for various oilfield products.
- Performs designing of Weldment structures and sheet metal enclosures by utilizing **Autodesk Inventor & Solidworks**.
- Generates 3D Models, Subassemblies, Assemblies, and detailing of Skids, Machining parts, and Equipment as per the customer requirement and DNV standard.
- Prepares General Arrangement Drawings (GAD), Bill of Materials (BOM), and Manufacturing Drawings.
- Calculates dimensional tolerance requirements to ensure proper assembly fit and function according to design requirements defined by the Engineer.
- Applying GD & T symbols and weld symbols as per the function and requirement.
- Performs final drafting review to ensure drawings contain all dimensional data for shop fabrication.
- Preparing the As-built drawings on completion of the project and rectifying the original drawing.
- Making of ECN and ECR as per Customer requirement.

❖ **Drafter-1A (Utility Dept.) at ATG Business Solutions Pvt.Ltd (Client: Sabre Industries), Hyderabad from October 2021 to November 2022.**

Responsibilities:

- The core duties were designing and drafting Steel Poles and Towers for the Transmission and Telecom industries.
- Performs Designing and detailing of Monopoles, Self-Supporting poles, Guyed poles, Transmission and Distribution Poles, Light Duty Poles, and Substation tubular poles.
- Prepare and review part fabrication details and assembly drawings, Bill of materials (BOM), and Design layouts based on Customer specifications in both 2D and 3D models and drawings by using **Autodesk Inventor and AutoCAD**.
- Designed and created complex Structures like A-Frames, H-Frames, Substations, Antenna, Switch Poles, Hand holes, and 2-Bay Single & Double Circuit poles in Transmission.
- Working closely with Project Managers, Engineers, and Quality to discuss design details and meet Customer expectations, Production feasibility, and Design accuracy.
- Responsible for Productivity (5 Dwgs/wk), Quality, OTD (On Time Delivery), and FTR (First Time Right).
- Creating knowledge transfer (KT) templates for customers wise to meet customer-specific requirements all the time.
- Performs Quality checking of the drawings as per standards before releasing them to Fabrication.
- Assisting Team Lead in technical documentation, Submittals, and scheduling work for the team.
- Leading Team for special Alliance clients (Ameren Services, Eversource, Scana, National Grid).
- Conducting Kick-off meetings before starting the project and explaining about the project to make the goals clear.
- Provides training & assistance for new drafting personnel on Standards and Clients.

Highlights:

- Awarded as the Best performer for the first two quarters in the year FY-2020.
- The charm of having the 'Highest Customer Satisfaction Index.
- High-quality designing and detailing with accuracy and consistency.

TECHNICAL SKILLS

- **Design & Drafting:** Autodesk Inventor, Autocad, Solidworks, NX (Unigraphics), PTC-Creo, CATIA V5.
- **PLM:** Autodesk Vault, Windchill, TeamCenter.
- **Analysis:** Hyper Mesh, Ansys.
- **CAM:** Fanuc CNC Programming, NX Cam.
- **Programming:** C-language, Python.
- **Word processing:** MS word, MS Excel, MS Powerpoint, MS Outlook, MS Teams.

ACADEMIC QUALIFICATION

- B.Tech. (Mechanical Engineering) from SRKR Engineering College, Bhimavaram, Andhra University in 2018 with an aggregate of 8.04 CGPA.
- Diploma in Mechanical Engineering from Dr.B.R.Ambedkar GMR Polytechnic, Rajahmundry in 2015 with 87.59%.
- 10th from APPM Model High school, Rajahmundry, in 2012 with a 9.0 GPA.

ACADEMIC ACHIEVEMENTS

- Achieved **Prathiba Award** from Govt. of Andhra Pradesh in Engineering for the year 2018 from Andhra University.

COURSES & CERTIFICATIONS

- Completed "**Master Certificate course in Computer-Aided Tool Engineering**" at Central Institute of Tool Design in Hyderabad with **NSQF Level-6** Certification.
- Certified as a "**Lean Six Sigma Green Belt**" professional from Grey Campus Edutech Pvt.Ltd Hyderabad.
- Certified as a "**Lean Six Sigma Black Belt**" professional from Grey Campus Edutech Pvt.Ltd Hyderabad.

INDUSTRIAL EXPOSURE

- Industrial Training at International Paper APPM Ltd. Rajahmundry for 6 months as a Diploma Trainee.
- Visited the **RINL** steel Plant of Visakhapatnam as an Industrial Tour.

ACADEMIC PROJECTS

Successfully executed Project Works on:

- Design and Manufacturing of Plastic Injection Mold of Bulb Holder.
- RF controlled plowing and seed sowing machine.
- Fabrication of Electrolux Refrigerator.

PERSONALITY TRAITS

- Good written and verbal communication skills.
- Self-motivated and eager to learn new things.
- Ability to work individually as well as in a team.
- Rapidly build relationships and set up the trust.
- Capability of doing hardwork.

PERSONAL DETAILS

Date of Birth : 06th July 1997

Residential Address : s/o V.Bujjiyya, D.No:-4-205, Shanti Nagar, 5th Street, Katheru, Rajahmundry-533105, East Godavari, Andhra Pradesh.

Languages Known : English, Telugu, and Hindi.

Hobbies : Playing Cricket, Dancing.