

AKULA MANJUSHA

B. Tech - Mechanical Engineering

Gender : Female

Date of Birth: 16/06/2003

Email: akulamanju2000@gmail.com

Contact: 8247231945

Educational Qualification

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2024-Present	M.Tech – Marine Engineering and Mechanical handling	Andhra University College of Engineering	8.33
2020-2024	B. Tech – Mechanical	Vignan Institute of Information Technology	8.73
2020	Class XII	Sri Prakash Vidyaniketan, Payakaraopeta, CBSE	77.4 %
2018	Class X	Sri Prakash Vidyaniketan, Payakaraopeta, CBSE	84 %

Academic Achievements

- Secured 2nd Place at EDUHUNT Competition 2016.

Work Experience

- PM Internship BHARAT DYNAMICS LIMITED:**

2024-2025

Completed the internship in 2024-2025 academic year and I have been mainly involved in raw material inspection of a new project called Expendable article prototype (belongs to NSTL and it is under R&D) and simply called as a decoy used to mislead the torpedoes and learned about the hydrostatic pressure tests, both internal and external as well for checking the leakages in the decoy.

I have learned about SAP software for raw material acceptance and rejection and as well as for service entry sheet ,issue voucher and creating purchase requisition.

Learned about the structure of Varunastra like homing head ,battery section ,buoyancy ring 1,2 and electric section and motor section and tail unit.

- **Summer internship HINDUSTAN SHIPYARD LIMITED:**

2024-2025

Completed the internship in 2024-2025 academic year and learned about nesting tools through Aveva software for better utilisation of raw materials and the main raw material used in shipyard was plates available in different thickness and lengths and belongs to grade A of high carbon steel.

- **Company name: Pennar Industries limited (PEB)**

July 2023-2024

- **Position: Quality Control Engineer**

- **Scope: Raw material inspection:** Inspecting the raw materials through inward inspection along with the PO and comparing the MTC's with the IS Standards.

- **Fit-up inspection:** which includes inspection of the fit-up's in process stage concerning visual, dimensional and orientation compliance as per the approved drawings and specifications.

- **Control of welding process:** As per applicable WPS and PQR requirements and have been experienced and well-versed with the codes like AWS D1.1, and ASME Section IX. Monitoring and expedition of NDT requirements. Review of weld map. Carrying out the welding inspection before, during, and after welding operation as per the approved test plan, relevant engineering drawing, the international standard and project specification

- **Analysis of site claims:** Analysis of the issues occurred at different site locations of different projects comparing with the engineering drawings and technical specifications and solving the errors by giving the work method statements.

- **Rework-Rejection notes:** Analysing the fabrication errors, detailing errors and raising rework note and rejection note and solving the errors by giving the solution.

- **Long term Internship in SkillDzire in collaboration with APSCHE approved by AICTE:**

Oct 2023-April 2024

Structural analysis and design using Staad pro.

- **Summer Internship BHARAT HEAVY ELECTRICALS LIMITED:**

2021-2022

Completed the internship in 2021-2022 academic year and learned about the manufacturing of pressure vessels, Boilers, and learned about forging, moulding, blanking, punching, deep drawing and metal forming operations in Hydraulic press and also learned about cutting, knurling, drilling in Lathe machines.

Projects

- **Project on Automatic Drug Dispenser machine:** *Sep 2023- April 2024*
An automatic medicine vending machine with a self-contained on-site pill dispensing mechanism and a storage facility for the plurality of pills that can be dispensed based on the user requirement. The main use of this vending machine is to supply the medicine in rural villages ensuring timely access to essential medicines.
- **Project on Solar umbrella for helping police:** *Jan 2022- July 2022*
In this project, we have made sincere efforts to understand, examine, and created a solar umbrella for helping police , as they work under hot temperatures during summer season , so as to provide them a comfort zone , by providing fan and LED lights and good shelter under the umbrella.
- **Project on PEB:** *Aug 2022- Dec 2022*
In this project, I have designed an Anchor bolt plan, elevation of steel structures using Auto Cad software.

Technical Skills

- Skilled in raw material inspection, fit-up inspection, control of welding process, analysis of site claims and rework-rejection notes.
 - Engineering Softwares : AutoCAD (Design precise 2D models as well as mechanical drawings)
Catia (Assembling of parts and 3D modelling)
Ansys.
 - Other Software : Microsoft Word, PowerPoint, Excel
 - Skilled in DS, DBMS, FEWD with bootstrap and react.
-
-

Positions of Responsibility

- **Team leader for the main project:** *Sep 2023- April 2024*
Worked as the leader of the team for our main project automatic drug dispenser machine.
- **Team leader for the mini project:** *Jan 2022 - July 2022*
Worked as the leader of the team for our mini project solar umbrella for helping police and developed team schedules, created a good communication between team members which resulted in successful completion of the project with good outcomes from all the members of the team.

Certificates:

- Certificate form **tcs ion** for the completion of **Group discussion**.
- Certificate from **INFOSYS** for completing **Introduction to Machine Learning** course.
- **Cousera** certification in **Introduction to Artificial Intelligence (IBM Skills Network)**.
- **Cousera** certification in **Introduction to Data Analytics for Business** (University of **COLORADO BOULDER**)
- C programming from **Solo learn**.
- **NPTEL Certification in Automation in Manufacturing**.

Extracurricular Activities

Co-curricular Activities:

- Thesis and journal on automatic drug dispensing machine.
- Participated in **Legacy Geeks** organized by JNTU Vizianagaram.
- Participated in 7-day bootcamp on backend web development program conducted by **devtown** company.

Sports Activities:

- Part of **VIGNAN THROWBALL TEAM** and played matches in college level tournaments.
 - Participated in **Inter departmental matches** for throwball as a captain of the team.
 - Participated in various sports conducted by **Rotary club** in school level tournament.
-
-