



Tharun Nataraj Dhandapani

+91-8754789605 | tharun.tnd.nataraj@gmail.com | [LinkedIn](#)

Mechanical Engineering undergraduate with internship experience in product design and Manufacturing. Skilled in engineering drawings and design calculations, with a focus on machine design, design validation, and manufacturing engineering.

EDUCATION

Indian Institute of Engineering Science and Technology, Shibpur

2027

Bachelor in Technology in Mechanical Engineering

Howrah, West Bengal

EXPERIENCE

Product Design Intern | L&T EDRC – Minerals & Metals , Kolkata

Jun 2026 - Jul 2026

- Studied Stacker-Reclaimer, Barge Unloader & Launching Girder systems and engineering drawings.
- Performed power calculations for Stacker-Reclaimer based on operating requirements (ISO5049).
- Conducted hydraulic cylinder design calculations for a tilting structure.
- Interpreted GA, assembly & engineering drawings, including BOM and component specifications.

In-Plant Trainee | L&T EW – Minerals & Metals , Kanchipuram

Jun 2025 - Jul 2025

- Studied industrial safety protocols, PPE, and risk assessment using risk severity matrices.
- Gained exposure to welding, joint types, fabrication processes, and QA/QC practices.
- Observed CNC machining, material handling, and surface preparation operations.
- Developed basic understanding of manufacturing operations and supply chain management.

CAD Intern & Trainee | Bharat Balancing Weights Co., Coimbatore

Dec 2024

- Utilized Creo PTC to compressor component models, conducting dimensional tolerance analysis for high-precision manufacturing.
- Ensured data integrity for complex assemblies by performing geometry recovery (Creo PTC).

Intern | Bull Machines Pvt. Ltd., Coimbatore

Jun 2024 - Jul 2024

- Optimized plant layout through manpower, machine, and workflow analysis.
- Studied processes in Earth Moving Machine manufacturing, including VMC, CNC Laser cutter

PROJECTS

Kinematic Analysis and Simulation of a 3-RRR Planar Parallel Manipulator using MATLAB

- Analyzed a 3-RRR planar parallel manipulator by determining degrees of freedom, forward and inverse kinematics, and singular configurations.
- Developed a computational model to simulate and animate manipulator motion under defined geometric constraints.

SKILLS

- **Core Mechanical:** Machine Design, Manufacturing processes, Industrial Engineering
- **Software & Tools:** Creo, SolidWorks, MATLAB, Python, C, MS Excel, PowerPoint, CNC Simulator
- **Certification Courses:** Risk Management (FMEA ISO 31000, Six Sigma), Remote Sensing & GIS (ISRO)

POSITION OF RESPONSIBILITY

- Sports Vice Captain
- Basketball Vice Captain

ACHIEVEMENTS

- 95 Percentile in JEE Examination
- Athletics Individual Champion (District)
- Best Athlete Awardee
- Basketball (District, 2nd Place)
- Handball (CBSE Clusters, 2nd Place)

LANGUAGES

- English, Hindi, Tamil