


ANSHUMAN TRIPATHY

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Education

Parala Maharaja Engineering College Berhampur

Bachelor of Technology- Mechanical Engineering; CGPA: 7.34/10

October 2022 – 2026

Berhampur, Odisha, India

Vignan H S School, Laxmipur, Golonthara, Berhampur

Intermediate in Science; Percentage: 74%

August 2020 – July 2022

Berhampur, Odisha, India

Khairaputi Panchayat High School, Khairaputi

Matriculation

March 2019 – April 2020

Ganjam, Odisha, India

Inernship

Hindustan Aeronautics Limited (HAL):

Engine Division, Ministry of Defense, Govt. of India, Koraput

Koraput, Odisha

June, 2024 – July, 2024

- Comprehensive Overview of the RD33 Engine Characteristic.
- Engaged in the engine manufacturing process of MiG-29 fighter aircraft (RD-33) and of Sukhoi Su-30 MKI fighter aircraft (AL-31FP).

Rourkela Steel Plant (RSP):

Steel Authority of India Limited (SAIL)

Rourkela, Odisha

June, 2025 – July, 2025

- Gained practical exposure to blast furnace operations and mechanical maintenance of heavy equipment..
- Developed knowledge of thermodynamics, industrial safety, and automation systems.

Projects

Numerical Investigation Of Nucleate Boiling By Fin Gemotry Using VOF In ANSYS FLUENT

- Simulated nucleate pool boiling on smooth and finned surfaces using the VOF model in ANSYS Fluent. Studied bubble dynamics, vapor formation, and heat transfer behavior under different wall superheat conditions. Evaluated fin geometries to identify configurations with improved boiling heat transfer performance.
- Tool used: Ansys

Multi-Stage Cam-Follower Mechanism

- Developed and prototyped a multistage cam-follower mechanism for accurate motion control and optimal mechanical performance.
- Tool used: AutoCad

Design and Structural-Thermal Analysis of a Knuckle Joint Using ANSYS

- Performing a structural-thermal study of a knuckle joint using ANSYS, guaranteeing durability and thermal efficiency under varying load circumstances.
- Tool used: SolidWorks, Catia

Skills

- **Software** : CATIA, Solid Works, Auto Cad and Ansys
- **Tools** : MS PowerPoint, MS Word, MS Excel
- **Soft Skill** : Leadership, Teamwork, Management, Public Speaking

Certifications and Courses

- Auto CAD Mechanical 2D and 3D designing- **Udemy**

Achievements

- **Innovetex**: Secured third position in Competition organized by ISHRAE Kolkata Chapter.
- **Robomania 2K24**: Secured first in Rorobrace Competition organized by P MEC.

Positions of Responsibility

- **President** of ISHRAE Bhubaneswar Student Chapter ”**ISHRAE**”
- **Member** of Robotics club ”**ROBOSTREAKS**”

Areas of Interest

Travelling new places , Playing indoor games