

# Nandula Mayukh

*Mechanical Engineer*

## Personal details:

Citizenship: US Citizen

Residence: Hyderabad, TL, India

## Contact details:

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**Mechanical Engineer with hands-on experience in end-to-end product development, skilled across industries. Adept at creating tools and processes that enhance cross-functional efficiency. Dedicated to efficient and tool-agnostic solutions in CAD, analysis and prototyping.**

## EDUCATION

### Bachelor of Technology, Mechanical Engineering

*Mahindra University | 2020 – 2024*

Relevant Coursework: Engineering Drawing, Design of Machine Elements, Manufacturing Processes, Mechanics of Solids, Heat Transfer and Fluid Mechanics, Material Science.

### Secondary Education

*P. Obul Reddy Public School (Science) | 2017 - 2019*

Relevant Study: Mathematics, Physics, Chemistry

## SKILLS

### Mechanical:

• CAD & Drafting (Advanced) • Reverse Engineering (Intermediate) • Mechanical Design(Intermediate)

### Fabrication:

• 3D Printing (Advanced) • Laser Cutting (Advanced) • 2.5 Axis Machining (Advanced)  
• 3 Axis Machining (Intermediate) • Welding (Beginner)

### Analytical & Documentation:

• Excel (Advanced) • SOP Creation (Advanced) • Finite Element Analysis (Intermediate)  
• Computational Fluid Dynamics (Intermediate)

### Automation:

• Microsoft Power Apps (Intermediate) • VBA Scripting (Intermediate) • Machine Process Automation (Intermediate)

### Design:

• Product Design (Intermediate) • Investor Pitch Decks (Intermediate) • Expo Posters (Intermediate)

## PROFESSIONAL EXPERIENCE

### INDUSTRIAL DESIGN ENGINEER

*Product Armor Packaging Pvt. Ltd. | July 2024 – Present*

- Created product drawings (customer facing)for new products
- Oversaw CAD across departments
- Led all rapid prototyping of products using 3D printing
- Spearheaded 2 new products from phase 0 • Authored standardized SOPs
- Built automated applications reducing down-times • Maintained centralized Product Master
- Automated report generation and analysis • Procured raw materials for trial runs
- Assessed Tool & Die performance mold life • Planned project timelines • Designed graphics for investor and client communication

## **INDUSTRIAL DESIGN ENGINEER INTERN**

*Product Armor Packaging Pvt. Ltd. | June 2024*

- Created technical drawings • Developed CAD models • Created graphics for internal and external use

## **MECHANICAL CONSULTANT**

*Harvested Robotics | December 2023 – April 2023*

- Designed fixturing parts of flagship product earning co-inventor recognition in submitted IP

## **MECHANICAL DESIGN INTERN**

*Kritsnam Technologies | July 2023 – August 2023*

- Designed in-house testing tools (CAD) reducing testing time • Improved iterations of flagship product

## **RESEARCH & CONTENT INTERN**

*Centella Scientific | January 2022 – March 2022*

- Authored technical articles and content for research scholars and academic audiences

## **RESEARCH INTERN**

*Dhruva Space | June 2021 – September 2021*

- Shortlisted sensors for integration in CubeSats • Parsed technical specifications

## **SELECT PROJECTS**

### **DESIGN AND MANUFACTURING FOR ROBOCON 2022 | Mar 2022 - Jun 2022**

Spearheaded CAD design and fabrication of 2 robots for the 2022 season of Robocon, which were able to meet the competition requirements and successfully reached quarter finals.

### **CREATION OF FIXED WING PLANE FOR SAE ADDC | Jul 2022 - Oct 2022**

Lead the team CAD design and fabrication of a 2-meter wingspan plane which was successfully flown in Chennai, ranking 22nd in the Nation.

### **PROPULSIVE EFFICIENCY OF SCRAMJET ENGINE | Aug 2023 - Dec 2023**

Theoretical validation of experimental research on thrust generated by SCRAMJET engines.

## **LEADERSHIP ROLES**

**President and Captain, AERO CLUB @ Mahindra University | 2023 – 2024**

**Vice-president, OUTREACH CLUB @ Mahindra University | 2023 – 2024**

**Manufacturing Head, ROBOVERSE @ Mahindra University | 2022 – 2023**

**Master of Ceremonies and Presenter for Shri Anand Mahindra Interaction | Nov 2023**

**Mentor for current University Teams (ADDC and ROBOCON) – Remote | Present**

## **HOBBIES AND EXTRACURRICULARS**

***Certified Yoga Teacher (Sadhguru Gurukulam, HYTT-2019)***

**Tech:** 3D Printing, Self-Hosting, Woodworking, Copper Work

**Sports:** MMA, Badminton, Running, Calisthenics,

**Arts:** Violin, Drawing, Indian Literature