

Nandula Mayukh

Mechanical Engineer

Personal details:

Citizenship: US Citizen

Residence: Hyderabad, TL, India

Contact details:

nandula.mayukh@gmail.com

nandulamayukh.github.io

+91 9100901313

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

2020 – 2024, Hyderabad

Mahindra University

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

Secondary Education

2017 – 2019, Hyderabad

P. Obul Reddy Public School (Science)

Relevant Study: Mathematics, Physics, Chemistry

PROFESSIONAL EXPERIENCE

INDUSTRIAL DESIGNER

July 2024 – September 2025, Hyderabad

Product Armor Packaging Pvt. Ltd.

- 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 DESIGNER INTERN

June 2024, Hyderabad

Product Armor Packaging Pvt. Ltd.

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

MECHANICAL CONSULTANT

December 2023 – April 2023, Hyderabad

Harvested Robotics

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

MECHANICAL DESIGN INTERN

July 2023 – August 2023, Hyderabad

Kritsnam Technologies

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

RESEARCH & CONTENT INTERN

January 2022 – March 2022, Hyderabad

Centella Scientific

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

RESEARCH INTERN

June 2021 – September 2021, Hyderabad

Dhruva Space

- Shortlisted sensors for integration in CubeSats • Parsed technical specifications

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)

Design:

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

SELECT PROJECTS

DESIGN AND MANUFACTURING FOR ROBOCON

March 2022 - June 2022, Hyderabad

Mahindra University

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 - SAE ADDC

July 2022 - October 2022, Hyderabad

Mahindra University

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

EFFICIENCY OF SCRAMJET ENGINE

August 2023 – December 2023, Hyderabad

Mahindra University

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

LEADERSHIP ROLES

<u>President and Captain</u> , AERO CLUB @ Mahindra University	2023 – 2024
<u>Vice president</u> , OUTREACH CLUB @ Mahindra University	2023 – 2024
<u>Manufacturing Head</u> , ROBOVERSE @ Mahindra University	2022 – 2023
<u>Master of Ceremonies and Presenter</u> for Shri Anand Mahindra Interaction	November 2023
<u>Mentor for current University Teams</u> (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