Nain Gourang Chawla

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Hyderabad, Telangana - 500006, India

Education

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech Mechanical	Vellore Institute of Technology, Vellore	VIT	8.71 (Till Sem 5)	2022-2026
Senior Secondary	Meluha School	CBSE	89%	2022
Matriculation	Pallavi Model School	CBSE	90.2%	2020

Experience

- **XIBOTIX Pvt. Ltd.** *November 2024 - Present*
  Mechanical Design Intern VIT Vellore, India
  - Developing the hand rehabilitation device and robotic arm and finger mechanisms of the humanoid through rapid prototyping and iterative design processes.
  - Managing all aspects of 3D printing, including modeling, slicing, and quality control, for prototype and production purposes.
- **Enmac Systems Pvt. Ltd.** *June 2024 - July 2024*
  HVAC Design Intern Chennai, India
  - Gained hands-on experience in HVAC system design and project development, including heat load calculations and AutoCAD-based drafting.
  - Designed and implemented HVAC solutions by performing detailed heat load assessments and optimizing system layouts using AutoCAD.
- **Team RoverX (Creation Labs)** *September 2023 - Present*
  Media and Management Lead VIT Vellore, India
  - Led team's expo organization and execution, ensuring success. Create engaging social media content to improve online presence.
  - Developed and implemented media strategies to increase the team's visibility and engagement in competitions and on-line platforms. Produced and edited videos for competitions.

Projects

- **Lean Manufacturing in HVAC | Python and Data Visualization** *March 2025*
  Python in HVAC
  - Developed a Python tool for quality assessment in HVAC, automating humidity and enthalpy calculations.
  - Implemented real-time Excel logging and visualizations for data-driven decision-making.
  - Applied Lean principles to enhance efficiency and reduce errors in HVAC analysis.
- **Affordable Robotic Glove for Rehabilitation | Prosthetics** *February 2025*
  Vortex 360 Designathon, Autodesk Fusion VIT Vellore, India
  - Designed a low-cost robotic glove for leprosy patients and finger amputees, aimed at improving accessibility to prosthetic solutions.
  - Integrated servo motor control, powered by a battery, control board, potentiometer, and ESP sensor, with pressure sensors to regulate grip strength.
  - Designed for additive manufacturing, making it lightweight, cost-effective, and easy to assemble.

Skills

- **Mechanical Skills:** Technical Drawing, Manufacturing Processes, Mechanical Systems, 3D Printing
- **CAD Software Expertise:** SolidWorks, AutoDesk Fusion, AutoCAD, Cura, Chitubox
- **Programming Languages:** Python, Java
- **Database Systems:** Excel, MySQL
- **Design and Visualization Tools:** Figma, Canva, Adobe Premier Pro
- **Soft Skills:** Teamwork, Time Management, Leadership, Problem Solving, Communication

Certifications

- Certified SolidWorks Associate (**CSWA**) *3DEXPERIENCE*
- **MATLAB** Course Completion *MathWorks*

Achievements

- **Winner**, PIXELS TO PRODUCT (design-a-thon) *YANTRA 2024, VIT's annual tech-week*
- **1st Runner-Up** title in the Regional Affordable Medical Device Development Hackathon *IEEE*
- **14th Place**, International Rover Challenge, Coimbatore *IRC, 2024*

Additional Information

Languages: English (Bilingual), **Hindi** (Bilingual), **Khatri** (Native), **Telugu** (Limited Working), **Marathi** (Limited Working), **Kannada** (Elementary)
Interests: Football, Artificial Intelligence, Space Exploration, Aviation, Robotics