# VINEETH AMGOTHU

**Merchant city, Glasgow**

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## SUMMARY

Motivated and detail-oriented Mechanical Engineering postgraduate with practical experience in CAD design, simulation tools, and embedded automation systems. Currently pursuing an MSc in Advanced Mechanical Engineering at the University of Strathclyde, with a strong academic foundation and project work focused on sensor-driven systems and process automation. Adept at using tools like SolidWorks, ANSYS, and Arduino to solve real-world engineering problems. Eager to apply technical knowledge to improve manufacturing efficiency and product quality in a high-growth, innovation-driven environment.

## EXPERIENCE

Mahindra Tractors March - 2020
Warangal, Telangana, India

- Performed hands-on assembly of mechanical components and gained exposure to hydraulic systems and quality checks in a production line environment.
- Developed a strong foundation in tool handling, mechanical fitting, and team-based assembly workflows.
- Mechanical & Electrical Assembly | Hydraulic Installation | Flow Line Production | Sub-Assembly | Fabrication | Engineering Operations.

## EDUCATION

University of Strathclyde 09-2024 – Present
Advance Mechanical Engineering - CGPA - Merchant city, Glasgow, UK

AVN Institute of Engineering and Technology, JNTUH 10-2021 – 05-2024
Mechanical Engineering - Percentage - 70% Hyderabad, India

VMR Polytechnic Institute 06-2017 – 06-2020
Junior Mechanical Engineering, JE - Percentage - 67% Warangal, India

## PROJECTS

### Design And Optimization of Electromagnetic Automatic Breaking System For Automobile

An Electromagnetic Automatic Braking System (EABS) is an advanced braking mechanism that utilizes electromagnetic forces to slow down or stop a vehicle without physical contact. Unlike conventional friction-based brakes, this system operates on the principles of electromagnetism, reducing wear and tear while improving response time and efficiency.

### Robotic Vehicle Controlled By Arduino Voice Assistance Using ATMEGA 328P Microcontroller

This project involves the development of a voice-controlled robotic vehicle using an Arduino board and an ATMEGA 328P microcontroller. The system enables hands-free control of a robotic vehicle through voice commands, making it suitable for applications such as assistive robotics, home automation, and surveillance. A Bluetooth module connects the system to a smartphone or voice input device, while motor drivers control the movement of the vehicle based

**Design and Fabrication of Stairs Climbing Trolley**

A stair climbing trolley is designed to transport heavy loads across uneven surfaces, particularly staircases, with minimal human effort. This system utilizes a specialized wheel or track mechanism that allows smooth movement oversteps. The trolley enhances mobility, reduces manual lifting strain, and is beneficial for industrial, domestic, and medical applications.

## SKILLS

**Technical & Engineering Skills**

- Mechanical Assembly • Sub Assembly & Product Assembly • Hydraulic Systems • Electrical Installation
- Flow Line Production • Fabrication and Fitting • Engineering Operations • Assembly Line Work
- Practical Engineering Skills • Hands-on Mechanical Experience • Workshop Tools • Production Tools & Techniques

**Software & Programming**

- AutoCAD • SolidWorks • ANSYS • CATIA • MATLAB • R-Studio • Microsoft Office (Word, Excel, PowerPoint)
- Programming Languages: C • MATLAB • R-Studio

**Coursework & Design**

- CAD and CAM • Solid Modeling & Simulation

**Soft Skills**

- Manual Dexterity • Problem-Solving in Production Settings • Team Player
- Workmanship Standards • Attention to Detail • Sincere & Devoted • Time Management • Safety-Conscious Communication Skills

## CERTIFICATIONS

- Modelling & Simulation using ANSYS 2k23
- Technical Symposium – Siddhastha 2K23
- C Language Certificate March 2022
- National Level Technical Symposium 2k23