

ROHAN HEMANTH

MECHATRONICS ENGINEER

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 Rohan H

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SKILLS

1. CAD - Used **SolidWorks** and **Creo** to design and assemble complex parts.

Portfolio- Sample works at <https://www.behance.net/rohanhemanth>

2.FEA - Proficient knowledge and experience using **ANSYS**.

3.Programming - Used **C** and **Python** to control components using Arduino UNO.

AREA OF INTEREST

- Mechanical design engineer
- Industrial robotic engineer

EDUCATION

Dr.Mahalingam college of engineering and technology Anna University | July 2021 - april 2024
BE in Mechatronics Engineering
Overall **CGPA 8.4**

Nachimuthu polytechnic DOTE
2021 Aug 2018 - March 2021
Diploma in instrumentation and control engineering
Overall percentage **89.4**

SSLC Sri lathangi vidhya mandir higher secondary school State board | May 2018
Overall percentage 90

LANGUAGE

English,Tamil,Malayalam and German

PROFILE

Innovative Product Design and Robotics Engineer with a strong background in mechatronics engineering. Seeking a challenging position where my proficiency in design software such as Creo and SolidWorks can be leveraged to contribute to industries.

PROJECTS

Design and fabrication of 5 axis robotic arm

Duration : 2 month

The project 5-axis robotic arm is designed for pick-and-place operations in industries. The components of the robotic arm were meticulously designed in **SolidWorks** and fabricated using a **3D printer** with polylactic acid (PLA), ensuring precision and durability in the final product. The robotic arm integrates servo motors powered by Arduino Uno to facilitate joint movement, while **Python 3.10** scripts orchestrate precise control of the arm's five degrees of freedom for efficient pick-and-place tasks.

Hand gesture based wheelchair using Arduino, Pollachi.

Duration: 2 months

The hand gesture-based wheelchair project utilizes sensors to interpret hand movements and control a motorized wheelchair. Users make specific gestures to command the wheelchair's movement, such as forward, backward, left, or right. This will be enhancing their quality of life.

Sun tracking solar panel using arduino, Pollachi.

Duration: 1 month

The sun-tracking solar panel project utilizes light sensors and an Arduino to dynamically adjust solar panels to face the sun throughout the day. The Arduino calculates the sun's position based on sensor data and controls motors to reposition the panels.

INTERNSHIP

Internship in Lathe Operation and Engine Assembly Block, LM Automation | June 2022 - July 2022

Internship at AJ tech research lab | Feb 2024 -march 2024