







Gowtham kumar M

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OBJECTIVE

Motivated and detail-oriented Mechanical Engineering student with hands-on experience in AutoCAD, SolidWorks, and Arduino-based projects. Seeking an opportunity to apply my technical and problem-solving skills in a dynamic organization, contributing to innovative mechanical design and automation solutions.

EDUCATION

Muthayammal Engineering College

BE.Mechanical Engineering, CGPA: 7.56

Nov 2022 - Present

Government boys higher secondary school

HSC-Percentage: 55.83%

June 2021 - May 2022

Government boys higher secondary school

SSLC-Percentage: 67.2%

June 2020 - May 2021

SKILLS SUMMARY

- **Languages** : Python,HTML,CSS
- **Design softwar** : Auto CAD, Solidworks

INTERNSHIP

Tamil Nadu State Transport Corporation(TNSTC):

Dec 2024 - Jan 2025

- Interns study the company's structure, span of management, and how different departments function
- Internships offer opportunities to develop practical skills related to the transportation industry, such as understanding bus maintenance procedures and operational logistics

PROJECTS

Ultrasonic Radar with Arduino

- Developed a radar system using an ultrasonic sensor and servo motor integrated with Arduino.
- The system continuously scans the surroundings, displaying real-time object detection on a graphical interface via simulation software.
- Real-time distance data is visualized through a graphical interface in simulation software, showcasing object detection and angle of approach.
- Tools & Technologies: Arduino Uno, Ultrasonic Sensor (HC-SR04), Servo Motor, Processing IDE, Simulation Software

RFID Controlled Bike Lock with Arduino

- Created a contactless bike lock mechanism using RFID technology.
- The system authenticates an RFID tag to enable or disable bike ignition, replacing the need for traditional keys
- Integrated IR/ultrasonic sensors for vehicle detection and LCD display to show real-time slot availability.
- Enhances vehicle security by allowing only authorized users to start the bike.
- Tools & Technologies: Arduino Uno, RFID Module (RC522), Servo Motor, Buzzer, Embedded C

CERTIFICATES

Laser based manufacturing-NPTEL

- Laser-based manufacturing is a high-precision process that uses focused laser beams to cut, weld, engrave, or add material to a workpiece. It offers excellent accuracy, speed, and minimal material waste, making it ideal for industries like automotive, aerospace, and electronics

Inspection and quality control in manufacturing-NPTEL

- Inspection and quality control are essential processes in manufacturing to ensure that products meet defined standards and specifications. They involve checking materials, dimensions, and performance to detect defects and maintain consistent product quality.

DECLARATION

I hereby declare that the above-mentioned statements are valid and true to the best of my knowledge.

(Gowtham kumar M)