

Shakil Ahamed

Mechatronics Engineer

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🌐 Shanti nagar, Bangalore, India

Dedicated mechatronics engineer seeking to work at your Company where I may contribute to the provision of cutting-edge software solutions while I pursue a successful career in design and development.

Experience

- **Robotic Engineer - internship @ Robotian Labs Pvt Ltd** 2023 JAN-MAY
 - Designed and prototyped robot components using advanced 3D printing techniques.
 - Collaborated with the engineering team to optimize designs for manufacturability and performance.
 - Contributed to the development of robotic control systems by designing and iterating on PCBs.
 - Worked closely with electrical engineers to integrate sensors and actuators into the robotic system, enhancing overall functionality.
 - Conducted debugging and optimization of code to ensure smooth integration of software and hardware components.
 - Maintained detailed documentation of design decisions, code implementations, and testing procedures.

Software Proficiency

- CAD Modeling - Fusion 360
- 3D Printing - Slicer
- Embedded System Design
- Embedded C Programming
- PCB Design - KiCAD
- Battery Management
- PC Repair

Projects

- **Smart Dustbin for Physically Challenged Individuals** NOV 2023 - FEB 2023
 - Developed an Arduino-based Smart Dustbin for enhanced accessibility for physically challenged users.
 - Integrated IR sensors for precise line following, enabling the smart dustbin to autonomously navigate through indoor spaces.
 - Implemented 12V motors for efficient and reliable movement, ensuring smooth and obstacle-free navigation.
 - Incorporated a single-button control interface for easy operation by physically challenged users.
 - Addressed power consumption challenges by optimizing code and implementing sleep modes during idle periods.
 - Demonstrated potential for improving daily life for physically challenged individuals

● LPG Gas Detector and Alert System

JAN 2023 - FEB 2023

- Designed and implemented a comprehensive LPG gas detection and alert system for enhanced safety using ESP32 and Firebase technologies.
- Designed a unique 3D layout for fitting all components atop the LPG regulator.
- Established communication with Firebase for remote monitoring and Implemented instant alerts for users in case of a detected gas leak.
- Programmed visual and audible alarms for on-site warnings.
- Crafted a tailored 3D design ensuring a secure and aesthetic fit on the LPG regulator.

Achievements

- **Hindustan Institute of Technology & Science - Arc Fest 2023 innovative Idea** **MAR 2023**
 - First Place for the innovative idea
 - Project Smart Dustbin for Physically challenged people
- **Velammal College of Engineering & Technology- National level project Showcase** **APR 2023**
 - Top 5 Best Project Showcase Award
 - Participation & Cash Rewards for Project Smart Bin

Education

- **M.A.M.School of Engineering** **2019-2023**
 - Bachelor of Engineering, Mechatronics Department
 - CGPA: 8.2
- **St.Francis Hr Sec School** **2017-2019**
 - PUC -Maths, Physics,Chemistry & Computer Science
 - Score: 67.7%
- **Government High School NBT** **2016-2017**
 - SSLC -State Board of Tamil Nadu
 - Score: 92%

Languages

- English
- Tamil

Hobbies

- Making DIY Videos on Youtube
- Lego Build
- Attending Public voluntary programs.
- Listening Music
- Cleaning