BALAJI T

Sri Manakula Vinayagar Engineering College
Department of Mechatronics Engineering
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PROFESSIONAL OBJECTIVE:

To secure an intern position in an organization that will allow myself to serve for the fullest of my capabilities and gives scope to enhance my knowledge and skills.

AREAS OF INTEREST:

- Robotics and Automation
- Embedded System Design
- Product Design and Development

ACADEMIC PROFILE:

2021 – 2025 Pursuing **Bachelor of Technology** degree in **Mechatronics** with a cumulative score of **7.79** (up-to 6th semester) at Sri Manakula Vinayagar Engineering College.

2019 – 2021 Completed **Higher-Secondary Education** with **89.67%** at Petit Seminaire Higher Secondary School, Puducherry.

2018 - 2019 Completed **High-School Education** with **90%** at Petit Seminaire Higher Secondary School, Puducherry.

PROJECTS:

1. **"Smart Guard" - Hazardous Gas Detection Mask for sewer**
   Description: A wearable head-strap device monitors gas levels in sewage systems, alerting workers and supervisors to hazardous conditions before they become critical. It transmits real-time data to a desktop application, enabling remote monitoring, proactive measures, and enhanced safety.
   Semester: V

2. **Real Time Monitoring Intravenous (IV) Fluid Levels and Alerting System**
   Description: This project designs a system to monitor IV fluid levels in real-time using sensors. It alerts healthcare staff to critical levels, reducing errors and improving patient care. Featuring sensors, microcontrollers, and alert software, it enhances monitoring efficiency and reliability.
   Semester: VI

PROFICIENCY:

- PROGRAMMING LANGUAGES : PYTHON
- DESIGNING SOFTWARE   : AUTO-CAD
- PCB DESIGNING   : EASY-DA, PCB ENGARVING
- MICROSOFT OFFICE SKILLS   : EXCEL,WORD,POWER-POINT
- LANGUAGES KNOWN   : ENGLISH, TAMIL

SOFT SKILLS:

- LEADERSHIP AND TEAMWORK
- TIME MANAGEMENT
- DETAIL-ORIENTED APPROACH

AWARDS AND HONORS:

1) Finalists of **Smart India Hackathon 2023**-Issued by Ministry of Education of India. Dec 2023 for presenting project titled "**Smart Guard** for sewer"

2) Received Best Performance Award at **the AICTE IDE Bootcamp-Phase III** hosted by Kalasalingam Academy of Research and Education as a part of Smart India Hackathon 2023.

3) Won second prize for presenting "**Smart Guard**" project in the event "VIVID 8.0 project expo", conducted by **SSN College of Engineering**, Chennai

4) Received an **Honorary Mention** for our project 'Real-Time Monitoring of IV Level and Alerting System' in the SCIMIT'24 Mega Project Contest organized by Manakula Vinayagar Institute of Technology

WORK EXPERIENCE:

Quality Analyst Intern at Rane Madras Ltd (RML)
Jan 2024 - Feb 2024, Puducherry, India

- During my internship, I gained hands-on experience in quality control and manufacturing engineering. I developed practical skills in quality assurance methodologies, problem-solving for real-world issues, and understanding the role of quality control in automotive manufacturing.

Production Intern at TVS Sundram Fasteners Ltd
July 2024, Puducherry, India

- As a production intern, I gained practical experience in quality control and manufacturing operations, enhancing my technical skills and understanding of production systems in the manufacturing sector