VARUN AJITH

ROBOTICS AND AUTOMATION ENGINEER

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OBJECTIVE

Robotics & Automation Engineering graduate with a passion for tackling complex challenges. Grounded in strong academics, I bring creative problem-solving and a thirst for knowledge. Eager to contribute fresh insights and drive advancements in dynamic robotics environments, dedicated to excellence and aspiring for leading achievements.

PROJECTS

Auto Mains Fail (AMF)
2023

- Constructed an Auto Mains Fail prototype leveraging PLC technology and implemented ladder logic programming.
- Executed panel wiring and hardware integration for seamless functionality.

Autonomous Hexapod
2023

- Engineered an autonomous hexapod prototype tailored for navigating challenging terrains.
- Incorporated advanced path planning alongside sensor integration

Automatic Metal segregation
2023

- Designed a small-scale model with a PLC-controlled conveyor for efficient metal segregation, incorporating sensor technology.
- Employed ladder logic in conjunction with the PLC controller to optimize metal segregation workflow in the model..

Gesture Controlled Robot car
2022

- Created a gesture-controlled robot car using sensors, allowing users to control it intuitively with hand movements for a more engaging experience.

Silo Simulator
2023

EDUCATION

B Tech in Robotics and Automation
SAINTGITS College of engineering
Kottayam
2019-2023

TECHNICAL SKILLS

- PROFICIENT IN ROS
- PYTHON PROGRAMMING
- PLC PROGRAMMING
- PCB DESIGNING
- PROFICIENT IN MATLAB
- SENSOR INTERGRATION
- MODEL DESIGNING
- SCADA DESIGNING
- COMPUTER VISION
- PAC AND HMI PROGRAMMING

SOFT SKILLS

- ANALYTICAL THINKING
- LEADERSHIP
- NATURAL NEGOTIATOR
- TEAM-PLAYER
- CONTINUOS LEARNING

- Designed a SCADA-powered industrial silo simulator, showcasing expertise in realistic design and scripting.

CERTIFICATION

Pursued a comprehensive **PG Diploma in Industrial Automation** at SMEC Labs, Kochi, gaining expertise in advanced automation technologies, PLC programming, industrial robotics, and control systems. Developed a strong foundation in the integration of automated systems, enhancing efficiency and productivity within industrial settings.

SEMINAR

Presented a comprehensive seminar on "**Dead Reckoning in Omnidirectional Autonomous Vehicles,**" effectively communicating the intricacies of precise self-navigation techniques and the challenges involved in navigating diverse environments to a varied audience.

ACHIEVEMENTS

- Hands-on workshop on IoT and Drones conducted by Bennet University (2019)
- Workshop on 3D game development conducted by pacelab (2019)
- Webinar on Telecom transmission network (2020)
- Workshop on Robotics Arm conducted by ISTE ST (2022)
- Workshop on ROS in Robotics (2023)

- ADAPTIBILITY

EXTRAS

- MEMBER OF ROBOTICS CLUB (SAINTGITS)
- PARTICIPATED IN ROBOTICS WORKSHOP
- PARTICIPATED IN E-YANTRA
- MEMBER OF IEEE SOCIETY