Arjun Rose.J.S

Profile

Dedicated and innovative Robotic Engineer with a strong background in designing, developing, and implementing cutting-edge robotic systems. Proficient in a variety of programming languages and skilled in both hardware and software aspects of robotics. Adept at collaborating with cross-functional teams to analyze requirements, devise solutions, and deliver high-performance robotic solutions. Proven track record of successfully managing the entire lifecycle of robotic projects, from conceptualization to deployment. Demonstrated expertise in machine learning, computer vision, and mechatronics. Committed to staying at the forefront of technological advancements to drive continuous improvement in robotic design and functionality. Seeking a challenging position to apply my skills and contribute to the advancement of robotics in diverse industries.

Education

B-Tech Robotics and Automation,
Karunya Institute of Technology and Sciences, Coimbatore

Projects

Light Tracking Robot

Designed and implemented a Light Tracking Robot as a part of an independent project, showcasing proficiency in robotics. The robot utilizes advanced sensors and algorithms to track light sources accurately and autonomously navigate towards them. Successfully integrated and programmed the robot's hardware components, demonstrating strong skills in both hardware and software development. This project highlights my ability to conceive, plan, and execute innovative solutions in the field of robotics, emphasizing adaptability and a hands-on approach to problem-solving.

Smart Plant Monitoring System

Developed and implemented a Smart Plant Monitoring System, showcasing expertise in the intersection of technology and agriculture. Designed a comprehensive system that integrates sensors, IoT devices, and data analytics to monitor and optimize plant health in real-time. Implemented features such as environmental parameter tracking, automated watering, and data visualization. This project demonstrates my proficiency in creating innovative solutions that leverage technology to enhance agricultural practices, emphasizing a multidisciplinary approach to engineering challenges.

Mimic Robotic Arm

Engineered a sophisticated Mimic Robotic Arm, leveraging advanced control systems and sensors. Designed the robotic arm to mimic the precise movements of a human operator. Successfully integrated sensory feedback mechanisms to enhance precision and responsiveness. This project highlights my ability to create intricate robotic sys-

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Courses

Google Cybersecurity

Getting Started with AI on Jetson Nano,
NVIDIA

Fusion 360, Autodesk

Linux Tutorial

Google Cloud Jam 2023

Hacking and Patching

Python in Kaggle, Guvi, Skillup

Problem Solving using Computational Thinking

Inovation Through Design Think Make Break Repeat

AWS Deep Racer

Networking Basics, Cisco

Network Addressing and Basic TroubleShooting, Cisco

Introduction to Graphic Design; Basics of UI/UX, SkillUp

Introduction to Industry 4.0 and IoT,
NPTEL

tems that bridge the gap between human interaction and automation, emphasizing a strong foundation in robotics engineering and control algorithms.

DTMF Based Home Automation System

Developed and implemented a DTMF (Dual Tone Multi-Frequency) Based Home Automation System, showcasing expertise in embedded systems and home automation technologies. Designed an intelligent system that allows remote control of home appliances using DTMF signals from a mobile device or landline. Integrated microcontroller-based circuits to interpret DTMF signals and automate various functions within a home environment. This project demonstrates my proficiency in merging telecommunications technology with embedded systems to create efficient and user-friendly home automation solutions, emphasizing a strong background in hardware design and programming.

Digital Level Scale

Designed and implemented a Digital Level Scale, demonstrating expertise in sensor integration and precision measurement. Engineered a compact device equipped with digital sensors to accurately measure angles and levels in various applications. Developed a user-friendly interface for real-time data display and analysis. This project showcases my proficiency in sensor technology, precision instrumentation, and user interface design, underlining my commitment to delivering innovative solutions for accurate measurements in diverse engineering contexts.

ChatGPT Prompt Engineering

Speaking Effectively, NPTEL

Links

https://www.linkedin.com/in/arjun-rose-j-s-957761252

Skills

- Communication Skills
- Microsoft Office
- Fast Learner
- Adaptability
- Programming
- Ability to work in a team

Languages

- English
- Tamil
- Malayalam