Ramkumar

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EDUCATION

PSG College of Technology, Coimbatore, Tamilnadu

2020-2024

Bachelor of Robotics and Automation

GPA: 8.2/10

Relevant Courses: Data structure and algorithms, Automation control system, basic of robotics ,PLC and SCADA ,Hydraulics and Pnuematics, Microprocessors and microcontroller, CNC, Design of mechanical Transmission system, AI for robotics Automation design system, Vision system, Embedded and real-time systems, Computer manufacturing system and Programming python.

TECHNICAL SKILLS

Software/Tools: MATLAB, ,Soildworks, TIA portal & pycharm.

Program-ming Languages: Python

PROJECTS

Automated Sorting Conveyor Machine

Designed and developed a mini-project using Fluid Sim and Arduino Board. Created an automated sorting system for items using a conveyor and sensors to detect and sort them.

Heartbeat and Temperature Detection System

Developed an embedded real-time system using Arduino and sensors to monitor and detect heart rate and temperature. Implemented a system that provides real-time feedback for health monitoring.

AI-Based Mouse System

Developed an AI-based mouse system using OpenCV and Python. The system interprets hand gestures through real-time image processing, enabling users to control the mouse cursor, improving accessibility for users with limited mobility.

Trap for Vibratory Bowl Feeder

Designed a mechanism to prevent 26mm diameter bottle caps from jamming in a vibratory bowl feeder, improving the efficiency and reliability of the feeding system.

Special Purpose Machine (SPM) for Welding

Developed a special-purpose machine (SPM) for welding copper end rods in submersible motors. Conducted research to optimize the welding process, ensuring precision and high-quality results.

EXPERIENCE

Titan Jewellery, Hosur

Intern, May – November 2023

- Automation of Continuous Casting Machine (CCM): Designed and implemented a PLC and Human Machine Interface (HMI) for the continuous casting machine in gold production. Ensured the system met vendor requirements for optimal performance.
- Excess Purity Reduction: Optimized the temperature and pressure parameters within the Vacuum Induction Melting Furnace to improve gold ingot production processes. Achieved precise purity control for high-quality output.

Robotic FA Solutions, Coimbatore

Intern, May 2023

- Gained hands-on experience in assembly automation processes.
- Provided technical support for a welding machine project, assisting in system integration and optimization of automated assembly lines.
- Collaborated with engineers to troubleshoot and improve the overall efficiency of automated systems.

EXTRA-CURRICULAR ACTIVITIES:

NCC Organisation

- I was an active NCC cadet and served as the Cadet Under Officer (CUO) of the 2(TN) Boys Battalion NCC, PSG Tech.
- Attended an Annual Training Camp (5 days) and CATC Camp (10 days) conducted by NCC at Coimbatore .

DECELARATION

I Ramkumar A, a young enthusiastic passionately driven student do hereby confirm that all the above enclosed information is true to the best of my conscience and I will deliver my promising performance for the betterment of your reputed organization and myself.