

KAILASH RAM JAYARAM

ROBOTICS & ARTIFICIAL INTELLIGENCE ENGINEER

MSc Robotics and Artificial Intelligence | B.E. Robotics & Automation

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Objective

Robotics and Automation Engineering graduate with hands-on expertise in R&D prototyping, embedded systems, and industrial automation. Skilled in Arduino, ESP32, Raspberry Pi, sensor integration, and CAD (Fusion 360), with a proven ability to deliver innovative solutions and manage projects effectively.

Experience

Top Rock Global | R&D Intern May 2025 – Dec 2025

- Led end-to-end project management for R&D initiatives, from concept development to deployment, including 3D printing and prototyping.
- Developed automation, AI, and IoT proof-of-concept systems for advanced research applications.
- Designed and implemented embedded systems using Arduino, ESP32, and Raspberry Pi.
- Integrated sensors and actuators, producing CAD models, simulation reports, and functional prototypes.

Varian Controls | Automation Intern May 2024 – Dec 2024

- Supported PLC-based industrial automation systems and troubleshooting
- Assisted with system integration, testing, and commissioning activities

Naraiuran Controls | Electrical & Controls Intern Jan 2025 – Feb 2025

- Assembled industrial control panels and executed wiring as per schematics
- Prepared basic electrical drawings and technical documentation

Motherson Automotive | Robotics Intern Jul 2023

- Worked on a 35 kg payload pick-and-place robotic system
- Gained hands-on exposure to industrial robotics and automation workflows

Cholayil Private Limited | Intern Jun 2023

- Supported a 2 TPH industrial automation line project
- Exposure to production planning, QC, and PLC/SCADA basics

ALF Engineering | Intern Dec 2022 – Jan 2023

- Learned chassis design, stamping, and manufacturing processes
- Contributed to an autonomous robot concept

Education

University of Aberdeen, Scotland, UK Jan 2026 – Feb 2027 MSc Robotics and Artificial Intelligence (Expected)

Focus areas: Robotics Systems, Artificial Intelligence, Autonomous Systems

Coursework will include machine learning, robotics control, and intelligent systems

B.E. Robotics & Automation Engineering 2021 – 2025 Rajalakshmi Engineering College, India

Skills & abilities

- Robotics & Industrial Automation Fundamentals
 - Embedded Systems: Arduino, ESP32, Raspberry Pi
 - Sensors & Actuators Integration
 - PLC Basics & Control Systems
 - Electrical Schematics & Control Panel Wiring
 - CAD & Mechanical Design (Fusion 360)
 - Prototyping, Testing & Troubleshooting
 - Basic IoT Systems & Data Integration
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CERTIFICATIONS

- **Commercial Project Manager Job Simulation, SIEMENS**, Forage
 - **Autodesk Fusion 360**, Ultimate Fusion 360 Course, Udemy
 - **Management of Inventory Systems**, IIT Kharagpur
 - **Production & Operations Management**, IIT Roorkee
 - **Ultimate Fusion 360 Course**, Udemy Certification.
 - **SS&C Blue Prism Robotic Process Automation Professional Certificate**, SS&C Blue Prism
 - **Career Essentials in Project Management by Microsoft and LinkedIn**
 - **Career Essentials in Generative AI by Microsoft and LinkedIn**
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PROJECTS

Adaptive Soft Gripper

- Designed a hybrid PLA, polyurethane soft gripper with electromagnets; validated using FEA and load testing.

AI-Integrated STEM Kit

- Developed a modular kit using sensors and microcontrollers to demonstrate core physics and electronics concepts.

Pick-and-Place Robotic Arm

- Designed and built a pick-and-place robotic arm using Arduino Uno R4 with joystick-based motion control and repeatability.
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LINKS

Linkedin Profile: [linkedin.com/in/kailash-ram-jayaram-aa0255264](https://www.linkedin.com/in/kailash-ram-jayaram-aa0255264)