

JESHURUN PENIEL

ASPIRING ROBOTICS & AUTOMATION ENGINEER

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EXECUTIVE SUMMARY

Final-year B.Tech Robotics & Automation student with hands-on experience in Industrial Automation, PLC Programming, ROS2, Embedded Systems, and Autonomous Mobile Robots. Completed industrial training at Daimler India Commercial Vehicles and internship at Aqua Sub Engineering. Seeking opportunities to contribute to industrial automation, robotics, and intelligent manufacturing while continuously expanding expertise in embedded systems and control engineering.

EDUCATION

B.Tech – Robotics and Automation (CGPA: 8.47)

Jul 2023 - Present

Karunya Institute of Technology and Sciences

TECHICAL SKILLS

Industrial Automation: PLC, HMI, SCADA, Industrial Networking, Sensors & Actuators

Programming: C/C++, Python, Embedded C

Robotics & Systems: ROS2, Gazebo, Nav2, SLAM Toolbox

Embedded Systems: STM32, ESP32, ESP8266, Arduino, RPi Pico

Design & Modelling: Fusion 360, SolidWorks, KiCad

PROFESSIONAL EXPERIENCE

Daimler India Commercial Vehicles Pvt. Ltd

Jun 2025 - Jun 2025

In-Plant Trainee

- Observed PLC-based automation used in truck cabin manufacturing.
- Studied robotic welding and automated painting systems.
- Learned industrial PLC architecture, networking, and control strategies.
- Understood SCADA and Building Management System (BMS) operation from centralized control rooms.
- Gained practical exposure to manufacturing workflows and Industry 4.0 practices.

Aqua Sub Engineering Pvt. Ltd

May 2026 - Jun 2026

Internship

- Gained exposure to automated industrial pump manufacturing processes and production workflows.
- Observed Yaskawa robotic painting systems used for automated surface coating of pumps.
- Studied FANUC industrial robots performing automated material handling and production line operations.
- Learned the integration of an ABB industrial robot within the manufacturing process for automated operations.
- Observed the deployment of a Motherson Robis Autonomous Mobile Robot (AMR) for autonomous pallet transportation and intralogistics.

PROJECTS

AUTONOMOUS NAVIGATION ROBOT

- A Rover built with ROS2 & nav2 to navigate autonomously indoors
- Further adding SAR features (Surveillance & Rescue Rover) to rescue people in terms of disasters.

IV Bag Monitoring System

- Designed a system to remotely monitor IV fluid levels from the nurse station.
- Used ESP32 to transmit real-time fluid level data and alert when the IV bag needs attention.

Pesticide Spraying Robot

- Designed a spray pesticide for the farmland remotely operated by the operator.
 - Reducing the harmful effects of pesticides on farmers allows them to spray the pesticide safely.
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CERTIFICATIONS

Basic Industrial PLC (CU-PLC) – Siemens SITRAIN India

Mar 2026

- 5-Day Industrial PLC Training covering Ladder Logic, Function Block Diagram (FBD), Timers, Counters, Analog I/O, Organization Blocks, Data Blocks, and HMI.
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LEADERSHIP & EXTRACURRICULARS

Vice President

Jul 2025 - Jul 2026

CAIRA, Student Association of Division of Robotics & Automation

- Coordinated technical events, workshops, and student activities.
- Supported academic and Skill development initiatives.

Report Head

Jul 2025 - Jul 2026

NSS Unit of Karunya Institute of Technology & Sciences

- Led the NSS report team and managed documentation, event reporting, and presentation work.
 - Ensured timely submission of monthly and major event reports, completing nearly 130 reports.
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