# ALEN GIGI JOSEPH

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Focus on Excellence

## OBJECTIVE

Seeking a challenging role as an Automation Engineer to apply my skills in robotics, programming, and system design to drive innovative solutions

## ACADEMIC CREDENTIALS

**Bachelor of Technology, Electronics and Instrumentation, 7.31 CGPA, May 2025**
Federal Institute of Science And Technology, Ernakulam

**Higher Secondary School, 96.5%, May 2021**
C.K.H.S.S, Nilambur

## TECHNICAL SKILLS

- **Programming Languages**: C, Python, Kotlin, Markup, Verilog
- **Frameworks & Tools:** ROS, Arduino, Android Studio, Git, VSCode, Linux, Docker
- **Server, Database and Cloud:** Node.js, MongoDB, SQL, AWS S3, Firebase
- **Design & Simulation:** Fusion 360, MATLAB, Proteus, Gazebo
- **Microcontrollers, SBCs and FPGAs**

## CERTIFICATIONS AND VALUE-ADDED COURSES

- Business English Certificate – B1 Level, Cambridge Assessments
- Internet of Things - NPTEL (Score: 83%)
- Workshop on IoT- PaceLab

## INTERNSHIPS & EXPERIENCES

HealthVault Mobile Application (Freelance Work)

## ACADEMIC PROJECTS

- **Low-Cost Autonomous Mobile Robot** (Mini Project): Developed a robot that navigates autonomously using ROS (Robot Operating System). Used Adaptive Monte Carlo Localization (AMCL) for precise positioning and navigation and a LIDAR sensor for Mapping the environment.
- **Urban Bloompod**: Developed an IOT based Indoor Plant growth and Monitoring system for the Rural Investors Meet 2023.
- **Kochi Metro Mobile App**: Developed and led the front-end development for the KMRL Android App, a comprehensive platform for booking Metro tickets, Planning Day outings and various activities for the Kochi Metro Rail Limited, India.
- **Trip Sage- Optimized Route Planner App**: Developed an app to find less congested routes using real-time traffic data.

## SEMINARS AND PAPER PRESENTATIONS

Cost Effective Indoor Localization Method using BLE beacons and LoRa WAN Gateways

## VOLUNTEERING EXPERIENCE

- Technical lead on Robotics workshop for 2nd year students of BTech, Electronics.
- Volunteer at College and Department events.

## CO-CURRICULAR AND EXTRA CURRICULAR ACTIVITIES

- **Memberships**: ISA (International Society of automation), IEEE
- Technical lead of FISAT Fabrication Lab.

## HOBBIES AND INTERESTS

- Tinkering
- Robotics Hobbyist
- Designing
- App Development

## REFERENCES

References are available upon request.