



# Muhammad Abuzer

Mobile: +92 301 8537356; abuzerjaved9@gmail.com; Sahiwal, Pakistan  
<https://www.linkedin.com/in/abuzer-javed9/>

## EDUCATION

### Lahore University of Management Sciences

July 2019 - January 2024

MS (Electrical Engineering)

*Minor:* Computer Sciences

*Relevant Courses:* Computer Vision, Machine Learning, Deep Learning, Embedded Systems

### COMSATS University Islamabad Sahiwal Campus

January 2015 - January 2019

BSc Electrical Engineering (Electronics and embedded systems)

## CERTIFICATIONS/TRAININGS

### Publications:

- Naeem, M., Sahi, S. T., Imran, T., & Abuzer, M. (2023). Microcontroller-Based Thermoelectrically Stabilized Laser Diode System. Archives of Advanced Engineering Science, 2(2), 93–99. DOI: 10.47852/bonviewAAES32021023
  - Designed and implemented the microcontroller-based control system to stabilize laser diode temperature using thermoelectric cooling.
  - Demonstrated practical expertise in embedded systems, sensor integration, and automation with real-world engineering applications.

## EXPERIENCE

### Freelance Web & Software Developer (MERN / React / Android)

Self-employed - Development

August 2020 - Present

- Develop MERN-stack and React web applications for IoT dashboards, device management portals, admin panels, and real-time data visualization.
- Build Android applications for device control, IoT connectivity, and remote monitoring of embedded systems.
- Integrate web and mobile front-ends with embedded/IoT backends via REST APIs, WebSockets, and cloud databases.
- Implement clean, responsive UI/UX and scalable architectures for production-ready web solutions.
- Collaborate with international clients to translate business requirements into full-stack applications and provide ongoing support.

### Ready Alert Warning Systems

Lead Engineer - Engineering

May 2024 - Present

- Led the design and development of emergency vehicle controllers, overseeing both hardware and software systems.
- Managed a team of engineers, coordinating system architecture, embedded hardware design, and software development.
- Ensured successful delivery of integrated solutions for emergency response and vehicle communication systems.

### MG Apparel

Assistant Manager(Automation Expert) - Engineering

April 2026 - Present

- Assisted in the design, development, and implementation of industrial automation and digitalization solutions using PLC-based control systems.
- Led the software development and deployment of industrial monitoring applications, integrating with modern IT infrastructure.

- Managed deployment, server configuration, and maintenance of on-premises industrial applications to ensure reliable operation.

## Freelance Electrical & Embedded Systems Engineer

Self Employed - Engineering

February 2019 - Present

- Designed and developed custom embedded computer systems for clients across industries including automotive, IoT, robotics, and industrial automation.
- Delivered end-to-end solutions: hardware design (PCB, circuit design), firmware development (C/C++, RTOS, microcontrollers)
- Developed Python-based applications for Raspberry Pi and NVIDIA Jetson Nano platforms, enabling AI/ML edge computing and real-time data processing.
- Built Android applications for device control, IoT connectivity, and remote monitoring of embedded systems.
- Collaborated with international clients, managing requirements, design iterations, and successful deployment of products.
- Optimized embedded systems for power efficiency, reliability, and cost-effectiveness, achieving measurable reductions in hardware costs and improved system stability.
- Supported clients with prototyping and debugging to meet industry standards.
- Successfully completed 100+ major projects, consistently meeting deadlines and exceeding client expectations.

## Rafiq Agrico

Automation Engineer (Consultant) - Electrical Engineering - Engineering

May 2024 - Present

- Design and develop microcontroller-based control systems for machinery automation.
- Integrate and configure sensors, actuators, and motor control units to enable precise machine operation.
- Create custom control units to enhance performance, safety, and efficiency of industrial machines

## PROJECTS

**Master's Projects:** Developed embedded systems using ARM and PIC microcontrollers, applied computer vision and machine learning (TensorFlow, PyTorch) for image analysis, and worked on image/video compression techniques.

**Bachelor's Project:** Designed a Smart Railway Management System with driverless train prototype, GPS tracking, smart ticketing, and lane interchanging.

## ADDITIONAL SKILLS AND EXPERIENCE

- I. Microcontroller Programming II.Arduino , raspberry pi development III. Machine Learning
- IV.Programming (C++, Assembly ,python, java) V. Matlab Programming IV. Android Development

## INTERESTS

Photography  
Travelling

## EXTRA CURRICULAR

- **Assistant Director (LUMS CULTURAL SOCIETY)** Role: 1) Collaborating with the HR Director on HR strategies, planning, and talent acquisition 2) Collaborating with other departments and communicating HR policies effectively
- **Member in PhotoLUMS Society**
- **Member in LUMS HumAhang Society**