

MUZAMIL AFZAL SOFI

ELECTRONICS AND COMMUNICATION ENGINEER

Electronics and Communication Engineer with a strong background in designing, developing, and testing electronic systems and communication networks. Proficient in circuit design, signal processing, and telecommunications. Experienced in working with microcontrollers, embedded systems, and various communication protocols. Excellent

LEADERSHIP

Led cross-functional teams in developing advanced fire detection systems, enhancing detection accuracy and reliability with innovative embedded solutions. Mentored junior engineers on VLSI techniques, boosting team productivity and technical expertise.

SKILLS

- 1) Embedded Systems:
Raspberry pi & Arduino
- 2) Optical Fibers, Radar Systems and Photovoltaics
- 3) VLSI Design:
Cadence Software and Verilog
- 4) KiCad PCB Designing
- 5) Python for Computer Vision and Machine Learning
- 6) Advanced Design
System(ADS) Software

CONTACT

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Jammu and Kashmir India

EXPERIENCE

TRAINEE ENGINEER

Bharat Electronics Limited (BEL) – Selected via campus placement
Experience to Date: Completed a 1-month introductory training, gaining foundational knowledge in radar technology and defense electronics systems.

PROJECT EXPERIENCE

Fire Detection and Protection System

Designed and implemented a Raspberry Pi-based fire detection system using OpenCV and a fine-tuned transformer model. Integrated GPIO-controlled alarms and real-time monitoring, achieving 95% detection efficiency within a 5-meter range.
Designed and tested custom circuits for various applications, both in software simulations and hardware prototypes.

EDUCATION

B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING, ISLAMIC UNIVERSITY OF SCIENCE AND TECHNOLOGY, KASHMIR, INDIA

AUGUST,2024

GPA: 3.67/4.0 (9.17/10)

Selected through competitive campus placement as Trainee Engineer at Bharat Electronics Limited (BEL), a Navratna PSU

AL-FALAH EDUCATIONAL INSTITUE

MARCH,2018

Completed Class 10th and 12th with 93% and 84% respectively.

ACTIVITIES

- Member of Electronics Club; participated in circuit design projects and tech workshops; organized University tech events.

