



# Arsalan Latif

## Electrical Engineer (Telecom)

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### About me

Having technical expertise, problem-solving skills, experience with industry-standard software tools, a strong understanding of emerging technologies, and also can design and maintain Optical, Embedded, and communication systems as a Telecommunication Engineer.

### Skills

- OTN & DWDM & LLD & Optical Networks
- Control Systems and Robotics
- Emerging Technologies Proficiency
- Proficient in Matlab & Python & C++
- NMS & Technical Expertise
- Embedded System Integration
- MS Office & Data Presentation
- Team collaboration & Communication
- Industry Standard Softwares

### Education

- 2019-2023 Bachelor of Electrical Engineering Specialization in Telecommunication CGPA 3.6/4 Bahria University, Islamabad
- 2017-2019 FSC Pre - Engineering Percentage 80% APS Pothwar Complex, Islamabad

### Publications

- 2023 Human robot Interaction – Object Detection and Distance Measurement Using Kinect V2.
- 2023 A Security Analysis of Bitcoin-Based Application: Decentralized Energy Trading System.
- 2023 A safety-enhancing framework based on collaborative robots (CoBot) for Industry 4.0.

### Awards

- 2023 Best Final Year Project Award
- 2023 Best Brochure Design Award
- 2020 E-Hunt Competition Award

### Experience

- 2024 Network Support Engineer Nayatel, Pakistan  
Designing and implementing new network solutions and/or improving the efficiency of current networks. Installing, configuring, and supporting network equipment including routers, proxy servers, switches, WAN accelerators, DNS, and DHCP.
- 2023 Fixed BroadBand Optical Network Engineer Intern Huawei, Pakistan  
Experienced in OTN, DWDM, LLD, DCN, HSA, LSA, DBOQ, NMS, Optical Networking and Core Networks
- 2022 Network Operations Intern AIIT Solutions, Islamabad  
Managed daily operations of the Network Operations Center. Monitored and maintained network infrastructure for high availability and performance.

### FYP Project

#### Speed and Separation Monitoring Cobot

Successfully integrated computer vision technology, implemented a camera-based vision system, and Developed intelligent decision-making algorithms to adjust the cobot's speed and trajectory, ensuring safe and efficient movement while adhering to strict safety protocols.

### Semester Projects

- 8 Bit processor on FPGA
- Simple Equalizer System (SES)
- Line Following Robot
- PID Controller Design
- Cell PhoneJammer
- IOT Based Home Automation System

### Achievements

- 1st Position for best fyp project in Open House Competition
- 1st Position for best Semester Project in E-Hunt Competition
- Got 3 times Merit-based Scholarships & PM Scholarship Laptop

### Interests

- Emerging Technologies
- Space Exploration
- Social Work
- Telecommunications Innovations
- Travelling
- Continous Learning