



Ahmad Jamal Khan

Date of birth: 07/12/1998 | **Phone number:** (+92) 3018137118 (Mobile) | **Email address:** design.engineer.ahmadjamal@gmail.com

WORK EXPERIENCE

23/11/2023 – CURRENT Peshawar, Pakistan
RF SYSTEMS ENGINEER PAKISTAN AIR FORCE

- Design, develop, and optimize **RF system architectures** for **radar, electronic warfare (EW), signals intelligence (SIGINT), and tactical communication systems**, ensuring high performance in mission-critical defense applications.
- Work with **software-defined radios (SDRs)**, including **USRP, Ettus, and FPGA-based platforms**, to develop and integrate advanced RF solutions.
- Conduct **RF link budget analysis, interference assessment, and spectrum planning** to enhance signal reliability and resilience in complex operational environments.
- Implement **anti-jamming techniques, frequency hopping, and secure RF communication protocols** to support resilient and interference-resistant defense communications.
- Support **real-time RF signal processing** by developing and optimizing algorithms for **waveform analysis, modulation/demodulation, and spectrum monitoring** in defense applications.

17/10/2022 – 31/01/2023 Peshawar
LECTURER NCS UNIVERSITY SYSTEM DEPARTMENT OF MANAGEMENT SCIENCES

- Delivered lectures and practical sessions in **Computer Science, Business Information Technology, Office Automation, Computer Networking, and Information and Communication Technology (ICT)**.
- Provided instruction in **C/C++ programming and Operating Systems**, emphasizing hands-on learning and real-world applications.
- Designed and implemented course materials, assessments, and lab exercises to enhance student engagement and comprehension.
- Mentored and supported students in developing technical and problem-solving skills relevant to their academic and professional growth.

EDUCATION AND TRAINING

10/09/2018 – 27/07/2022 Islamabad , Pakistan
BACHELORS OF SCIENCE Institute of Space Technology

Website <https://www.ist.edu.pk>

LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Projects

Remote Sensing of heart beat using a micromotion doppler radar | C++ language-based project of Exit/Entry system of university | Arduino-based measurement of the value of 'g' on earth. | Ground Proximity Warning System (PIC-16) | Ground Proximity Warning System (Arduino) | Cockpit Design Modification of ATR 42-500 Aircraft

Software Skills

NI Labview | Quartus | Multisim | Vivado | GNU Radio

Programming Languages

C++ | Python Language - Basic knowledge | Linux (Terminal Commands, Bash/Shell) | Verilog-HDL & VHDL