



Amir Ballach Khan

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Model Town Humak, Islamabad.

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Education

FAST - National University of Computer and Emerging Sciences, Islamabad.

Bachelor of Science (Electrical Engineering)

2025

Major: Embedded Systems

Punjab Group of College, Ayub Park Campus, Rawalpindi

2021

F.Sc (Pre-Engineering)

Kid City High School

2019

Matric (Science)

Projects

Final Project: Dynamic Whistle Blower Traffic Monitoring System [ML & IOT based]

System installed in a moving vehicle that acts as a whistle blower to check for over speeding vehicles in the surrounding and reporting to relevant authorities.

Semester Projects:

IoT-based Liquid Level and Quality Monitoring System

System that uses IoT to monitor and control liquid levels and quality remotely.

Line Following Obstacle Avoiding and Heat Sensing Robot

Robot that follows a path, avoids obstacles and heat sources to get from one point to another.

ATMEGA32 based Smart Prayer Clock

Clock based on ATMEGA32 that automatically adjusts and displays prayer time for next prayer.

Wireless Charger

Device that transfers energy wirelessly to charge electronic gadgets.

Work Experience

Remote Intern at **Code Alpha**

Dec 2024 – Jan 2025

Gained hands-on experience in Machine Learning by working on model development and data processing.

Intern at **Pakistan Council of Scientific & Industrial Research (PCSIR), Ministry of Science & Technology (MoST)**

Jun 2024 – July 2024

Configured and optimized a Cisco-based network infrastructure while implementing security measures such as VLAN segmentation, MPLS and firewall policies.

Skills & Tools

Professional Skills Leadership, Team Collaboration, Problem-Solving, Effective Communication, Adaptability.

Technical Skills TensorFlow, Thingspeak, Firebase, Python, C++, Blender, AUTOCAD, Flutter, MATLAB, Atmel, Arduino, Proteus, Cisco Packet Tracer.

Trainings / Certification

Blender 3D Course- Blender Guru (Youtube)

Completed a comprehensive course on Blender 3D, covering topics such as 3d modeling, texturing and rendering

Shopify Website Building Course-HBA Services (Youtube)

Completed a detailed course on creating and customizing websites using Shopify, covering store setup, product management and website optimization.

Activities

Head of Security, EE Welcome-22

Member of Robo Race Team, Nascon-22

Usher, Job Fair-24

Member of Society of American Military Engineers (SAME)

Represented Final Year Project in SAME's Annual Undergraduate Innovative Design Challenge

Interests

Skill Development, Football, Arm Wrestling.