

Kishwar Faisal

Electrical Engineering Student

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Bahawalpur, Pakistan

Passionate Electrical Engineering student at Namal University with strong hands-on experience in embedded systems, IoT, robotics, digital logic design, and AI-based applications. Skilled in hardware-software co-design with a proven track record through academic projects, internships, and tech expo participation.

EDUCATION

Pre-Engineering (FSc)

Daanish School Girls Hasilpur

09/2020 – 08/2022

83% Marks

BSc Electrical Engineering

Namal University, Mianwali

09/2022 – Present

Mianwali, Pakistan

Fully Funded Scholarship | Oct 2022 – Jul 2026

Courses

- Communication Systems
- Comp. & Comm. Networks
- Signal and System
- Engineering Drawing
- Embedded Systems
- Digital Signal Processing
- Digital Logic Design
- Investment Management

WORK EXPERIENCE

Trainee Engineer

Centre for AI & Big Data (CAID), Namal University

Mianwali, Pakistan

- Hands-on hardware–software co-design and AI system development.
- Designed 5-stage pipelined RV32I processor with hazard detection & forwarding unit.
- Built line following robot using Arduino Uno with IR sensors for autonomous navigation.

Internship Trainee

PTC Jhelum

08/2024 – 09/2024

Jhelum, Pakistan

- Practical industrial training in electrical and communication systems.
- Gained exposure to real-world telecom infrastructure and power systems.

LANGUAGES

English

Full Professional Proficiency

Urdu

Elementary Proficiency

Punjabi

Native / Bilingual Proficiency

ACHIEVEMENTS

Namal Tech Expo (05/2024)

Showcased Bluetooth-controlled balloon bursting robot & Sumo War robot

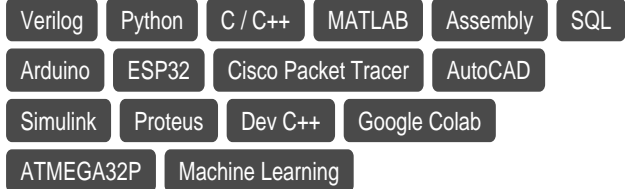
AI InnoFest 2025 (05/2025)

Presented Sumo War robot (Arduino Uno) for autonomous combat & navigation

CERTIFICATES

Namal Tech Expo Certificate – Namal University Mianwali

SKILLS



PERSONAL PROJECTS

Smart Solar-Powered Pesticide Sprayer – FYP

- AI-based pest detection for cauliflower crops using deep learning for precision spraying.
- Integrated solar energy, IoT hardware, and machine learning to reduce chemical wastage.

5-Stage Pipelined RV32I Processor

- IF, ID, EX, MEM, WB stages with hazard detection, forwarding unit & branch control in Verilog.

Swan PK Enterprise Network Simulation (12/2024)

- Designed secure & efficient enterprise network using Cisco Packet Tracer.

Audio Signal Processing in MATLAB (01/2024)

- Recording, merging, and voice extraction from mixed audio signals.

Sumo War Robot (05/2023)

- Arduino Uno robot with sensors & motor control to detect and push opponents out of ring.

Bluetooth-Controlled Balloon Bursting Robot

- Arduino-based robot operated via mobile app for remote navigation and popping balloons.

Line Following Robot – Simulink (04/2024)

- Simulated autonomous path tracking using sensors and control logic in Simulink.

Traffic Lights 3D Model – AutoCAD (07/2024)

- 3D model visualizing signal structures and layout for urban planning applications.

Stopwatch – Digital Logic Design (01/2024)

- Counter-based DLD stopwatch with start, stop, and reset functionality.

INTERESTS

