

Zohaib Saadat

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Education

Bachelor of Science in Electrical Engineering		2025
Major:	Computer & Embedded Systems	
HeadStart, Islamabad		2019
A-Levels		
Roots Millennium Schools, Islamabad		2017
O-Levels		

Projects

Final Project: Computer-Vision Based Road-Fault Detection Using YOLO11 and RTAB Mapping: A device that uses Raspberry Pi 5 Camera module, LiDAR sensor (3D), IMU and a GPS module and detects potholes in real-time and sends its telemetries to the cloud services, creating a cloud Digital Twin, to ensure driver and vehicle safety and a better road infrastructure.

Semester Projects:

Wearable Smart Healthcare Device using ESP32 + ThingSpeak

Real-Time Task Scheduling Simulation for RTOS Analysis

Obstacle Avoidance + Line Following Autonomous Bot Using ATMEL ATMega32

Audio Recording Analysis for Communication Systems using SSB+FDM

Travel Guide Program Utilizing Dijkstra's Algorithm in C++

Simplified ALU designed on NEXYS A7 FPGA Using Vivado HDL

Line Following Robot using Logic Based ICs

Designed a 3D car model using AutoCAD

Work Experience

Intern at xFlow research, Islamabad – Data Analytics & Research Engineer	Ongoing (10 months)
Teaching Assistant in courses: Operating Systems & Computer Architecture	2025
Teaching Assistant in course: Basic Mechanical Engineering	2024
Research Assistant in FAST NUCES Islamabad	2025

Skills & Tools

Professional Skills	Team Lead, Teamwork, Project Management, Communication Skills.
Technical Skills	Linux, MATLAB, C++, Python, ESP/RPi, Proteus, Cisco, AutoCAD, FPGA Programming (Nexys A7)

Achievements

FAST NUCES - 3x Gold Medals, 1x Bronze Medal + 4x Dean's List Award Recipient

First Runner's Up in HRC 2023 Maze Runner University Category.

Winner of Engineering Gameshow in NaSCon'23.

TasteFest '23 National Talent Hunt - Winner (Band - Fast Music Society)

NSTC – among top 20 in Pakistan in the STEMS Careers Program's National Physics Talent Contest (NPTC)

Training / Certification

ROS2 For Beginners (ROS Foxy, Humble - 2024) — Udemy

Neural Networks and Deep Learning — Coursera

Microelectronic solutions for digital photography — Open University (OU)

Fundamentals of TinyML — HarvardX (EdX)

 ${\tt IoT\ Edge\ Computing: Introduction\ to\ Amazon\ FreeRTOS-Amazon\ AWS\ Skillbuilder}$

Activities

Fast Engineering Society - President

IEEE Fast EE-Chapter – Vice-Head Marketing

Fast Music Society - Lead Guitarist

Job Fair '24 FAST NUCES - Head Usher

Interests

Music, Arts, Basketball & Research