

Muhammad Hassan

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Education

National University of Technology Bachelor of Engineering (Computer Engineering)	Islamabad, Pakistan 2022-2026
Concept College of Sciences Intermediate (Pre-Engineering)	Rawalpindi, Pakistan 2019 - 2021

Professional Experience

National Engineering and Scientific Commission (NESCOM) Pakistan's leading R&D organization in defense, robotics, and autonomous systems.	Islamabad, Pakistan
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AI & Robotics - Intern	July 2025 - Sep 2025
– Worked on an autonomous UGV integrating ROS, LiDAR-based SLAM, and YOLOv8 computer vision for object detection and navigation.	

Tech GIS PVT LTD Geospatial solutions provider specializing in GIS data processing and spatial analytics.	Islamabad, Pakistan
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AI Automation Engineer - Full Time	July 2025 - Present
– Develop AI-powered automation solutions, including real-time voice chatbots, RESTful APIs, and workflow orchestration using n8n, alongside 3D mapping and SLAM-based hardware projects.	

LANCERS SOFTWARES PVT LTD Leading software solutions provider specializing in web, mobile, and cloud technologies in Pakistan.	Rawalpindi, Pakistan
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Backend Developer - Part Time	Dec 2024 – July 2025
– Developed and maintained the backend for a mobile application using Node.js, Express, and SQL databases.	
– Implemented RESTful APIs, user authentication, notification systems, and robust middleware for secure and efficient operations.	

AMAL ACADEMY Education startup funded by Stanford University that teaches professional skills to students.	Rawalpindi, Pakistan
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Career-Prep - Fellowship	April 2024 – June 2025
– Selected from 4,500+ applicants for Stanford-funded 3-month Amal Academy Fellowship to develop communication and leadership skills.	

Projects

Trash Segregation UGV Developed an autonomous trash segregation UGV as part of the ICAT Project at NUTECH.	
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Team Leader	June 2024 – August 2024
– Developed an autonomous UGV for trash detection using YOLOv8 and OAK-D, with a 5-DOF arm for waste sorting into categorized bins. Integrate ESP32, Raspberry Pi, and ROS for real-time control, perception, and system coordination.	

AI Based Smart Attendance System Developed a real-time facial recognition-based attendance system.	
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Solo Developer	Dec 2024 - Jan 2025
– Used YOLOv8 for face detection and ResNet (Keras-OpenFace) for face recognition, with automated face cropping and storage.	

Certifications and Online Courses

COURSES	
– Artificial Intelligence Program – PIAIC –Air University, Islamabad.	Aug 2024 - Present
– Mathematics for Machine Learning Specialization - Coursera	April 2025 - Present
– Introduction to HTML – Coursera	April 2024
– Introduction and Programming with IOT boards	May 2023

Skills

- Frameworks:** Node JS , Express JS , React JS , FastAPI , Flask
- Database:** MySQL , PostgreSQL , Redis
- Languages:** Python , JavaScript , C++