

# Muhammad Mohsin

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## ● EDUCATION AND TRAINING

2020 – 2024  
**BSC. ELECTRICAL ENGINEERING** University of the Punjab

## ● WORK EXPERIENCE

06/2024 – 07/2024  
**STEM INSTRUCTOR** STEAM GENIUS CLUB

Worked as a STEM instructor in collaboration with the Pakistan Air Force, teaching Lego Robotics, Arduino Robotics, Python Programming, and AI.

**EMBEDDED SYSTEM ELECTRONICS ENGINEER** MUSLIM SCIENTIFIC CORPORATION

Programmed Raspberry Pi (4B) and PIC (18F4520) microcontrollers to build various projects

25/06/2024 – 25/09/2024  
**PYTHON PROGRAMMING INTERN** CODE ALPHA

Utilized Python libraries (OpenCV, TensorFlow, PyTorch) for real-time image processing and ML/DL projects in image classification and object detection

10/08/2023 – 10/11/2023  
**ASSOCIATE SOFTWARE DEVELOPER** REX TECHNOLOGIES

Worked with Angular for front-end, MySQL for databases, and Flask (Django) for backend development, creating websites for electronics and e-commerce applications.

15/08/2021 – 10/10/2022  
**EMBEDDED SYSTEMS ELECTRONICS ENGINEER** ELEKTRONIK2000

Programmed microcontrollers, including ESP8266/ESP32, Raspberry Pi, and Arduino, integrate various sensors for diverse applications.

18/12/2023 – 24/02/2024 Lahore, Pakistan  
**AMAL FELLOWSHIP** AMAL ACADEMY

Amal Fellowship: Enhanced leadership, communication, and networking skills through focused career development training.

## ● PROJECTS

**Multimodal Orthopedic Health assessment | Trigger point pain analysis through Deep Learning and Computer Vision**

A system for comprehensive diagnostics by analyzing trigger point pain, gait, plantar pressure, body pose, and angles.  
**Link** <https://github.com/Mohsin-424/AI-Projects>

**Gait Analysis and Abnormality Detection System using Deep Learning and Computer Vision**

A system that detects cerebral palsy (deformity) for medical diagnosis and rehabilitation using computer vision.  
**Link** <https://github.com/Mohsin-424/AI-Projects>

Green Wheelz offers a smart electric cycle rental system with IoT-powered geo-fencing for enhanced user safety and security

Link <https://github.com/Mohsin-424/IOT-Project>

VOLUNTEERING

17/05/2024 – 19/05/2024

Artificial Intelligence in Medical Images

Conducted a 3-day workshop on AI in medical images (bioimage analysis).

Volunteer STEM Skills Instructor

I teach Arduino, Lego robotics, and block-based Python programming to poor and deserving students.

Amal Ambassadorship

Fundraising for Akhuwat Foundation

DIGITAL SKILLS

Deep Learning | Computer Vision | Embedded Systems (Internet of Things)) | LaTeX: used for documents preparation (e.g. reports and presentations). | Microsoft Office (Outlook, Excel, Word, PowerPoint) | Natural language Processing | SQL

CERTIFICATION

AI in Heathcare Specialization: Stanford University (Coursera)

Machine Learning Specialization: Stanford University (Coursera)

Programming the Internet of Things (University of California UCI, Irvine) :(Coursera)

Industrial Automation: National Vocational and Technical Training Commission (NAVTTTC)

CONFERENCES AND SEMINARS

17/05/2024 – 19/05/2024 University of the Punjab, Pakistan

Artificial Intelligence in Medical Images

13/05/2022 Online

Advancements in Natural Language Processing and Chatbot Technologies

LANGUAGE SKILLS

Mother tongue(s): **PUNJABI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
URDU	C1	C2	C1	C2	C2
ENGLISH	C2	C2	C2	C2	C2

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

RECOMMENDATIONS

Engr. Dr. Danish Arif

Assistant Professor at the Institute of Electrical, Electronics and Computer Engineering University of the Punjab, Pakistan. (Quaid-e-Azam Campus)

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### **Engr. Dr. Kamal Shahid**

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Assistant Professor at the Institute of Electrical, Electronics and Computer Engineering University of the Punjab, Pakistan. (Quaid-e-Azam Campus)

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