

SYED HAIDER ABBAS

COMPUTER ENGINEER

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Objective

Driven Computer Engineer with a strong foundation in embedded system design, Internet of Things (IoT), and digital system design, supported by hands-on experience through academic projects and internships. Passionate about creating efficient, secure, and innovative hardware-software integrated solutions with a deep interest in networking, system optimization, and machine learning. Recognized for analytical thinking, rapid learning, and a proactive mindset, I aim to contribute to forward-thinking teams by enhancing system performance and advancing technological innovation.

Internship Experience

Computer Engineering Department, UET Taxila

Taxila, Pakistan

Embedded System Design Intern at the Computer Engineering Department, UET Taxila, where I contributed to the design and development of a smart technology-based product during a 6-week internship.

Project Intern: (July to Aug - 2024)

Green Vision

Remote, Pakistan

Completed a remote internship at Green Vision, working on Python programming and completing 100 Python tasks.

Python Programming Intern: (July to Aug- 2024)

Digital Empowerment Pakistan

Remote, Pakistan

Completed a remote internship at Digital Empowerment Pakistan as a Machine Learning intern.

Machine Learning Intern: (July 1st to July 31st- 2024)

Engineering Projects

Smart Cushion (Final Year Project)

Developed a smart cushion system integrating embedded sensors and IoT technology for health monitoring.

Skills: Embedded Systems, IoT, Sensor Integration, C Language, Data Analysis, Machine Learning, Emotion Recognition techniques, Dataset Acquisition.

Gender Recognition System using Voice Speech in Matlab (Gender Identifications)

Developed a digital signal processing system in Matlab to analyze voice signals and accurately identify the gender of the speaker.

Skills: Digital Signal Processing, Matlab, Voice Recognition, Signal Analysis.

Voice Over IP System (Secure Communication Between Systems on IP Network)

Designed and simulated a secure communication system between devices over an IP network using Cisco Packet Tracer.

Skills: Computer Networking, Network Security, Cisco Packet Tracer, Secure Communication.

Stop-Watch Using FPGA (Track Time Accurately Using FPGA)

Designed and implemented a stopwatch using FPGA to accurately track and display time.

Skills: FPGA Programming, Digital Design, Timing Circuits, VHDL/Verilog.

File Transfer System over Network (TCP Sockets)

Built a simple file transfer program that allows users to send and receive files between computers over a network. Implemented client-server architecture using TCP sockets to ensure reliable data transmission.

Skills: Socket Programming, TCP/IP, File Handling, Network Communication, Python.

Temperature and Humidity Detection By using ESP32 (Real-Time)

Integrated microcontroller and sensor circuits with ESP32 to monitor and transmit temperature and humidity data over a specific area in real time.

Skills: IoT, Microcontroller Programming (ESP32), Sensor Integration, Data Transmission.

Hostel Management System (Hostel Record Management)

Developed a web-based fitness management system for gym administration and member tracking.

Skills: Web Development, Database Management, Front-End Technologies, UI/UX Design.

Obstacle Avoiding Robot (Obstacle-Avoiding Car)

Built an autonomous robot that avoids obstacles using sensors and basic control algorithms.

Skills: Robotics, Sensor Integration, Embedded Systems, Arduino Programming.

Education

UNIVERSITY OF ENGINEERING AND TECHNOLOGY 3.08/4.00

Bachelor of Science in Computer Engineering

Superior College Jauhrabad (BISE Sargodha)--- 1039/1100 [94.8%]

Intermediate- FSC- Pre Engineering

The Educators Khushab Campus Jauhrabad (BISE Sargodha) – 825/1100 [75%]

Matriculation- Science