MS. ASMA MUSHTAQ

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Professional Summary

I am passionate and experienced Electrical Engineering Lecturer with over 12 years of teaching experience at undergraduate level. I have strong background in courses like Linear Algebra, Digital Logic Design, Electronic Devices and Circuits, and Embedded Systems. I have been actively involved in curriculum development, lab instruction and project supervision with a focus on bringing out the best in my students.

Academic Profile

Ph.D. in Electrical Engineering
Institution: University of Central Punjab, Pakistan | *2023 – Present*
CGPA: 3.9/4.0
Courses Completed: Graph Theory & Network Optimization, Industry 4.0, IoT, Research Methodology, Advanced Image Processing, Applied Machine Learning

M.Sc. in Electrical Engineering
University of Engineering and Technology (UET), Lahore | *2010 – 2016*
Thesis: Performance Analysis of Traffic Signs Detection and Recognition Techniques.
Grade: 68.39%

B.E. in Electronic Engineering
Lahore College for Women University | *2006 – 2010*
Final Year Project: Hurdle Detector (Ultrasonic obstacle avoidance system using PIC microcontroller)
CGPA: 3.77 / 4.0 | *Awarded Role of Honor*

Academic Experience

Lecturer, Department of Electrical Engineering

Government College University, Lahore | *May 2012 – Present*

- Delivered undergraduate lectures and lab sessions in core electrical engineering subjects like embedded systems, digital logic design, electronic devices and circuits.
- Actively engaged in curriculum development and upgrading the lab experiments.

- Supervised numerous final-year projects.
- Member of key departmental committees: Final Year Projects, Academic, Purchase.
- I have also been an event coordinator in department and have organized events including: Annual Project Exhibition (APEX) and Departmental Annual Dinner.

Courses Taught

Theory:

Embedded Systems, Linear Algebra, Digital Logic Design, Electronic Devices and Circuits, Electromagnetic Field Theory, Programming Fundamentals.

Laboratories:

Embedded Systems (Using PIC18F4550), Digital Logic Design, Electronic Devices and Circuits.

Research Interests

- Machine Learning & Artificial Intelligence
- Embedded Systems Design

Technical Skills

Programming & Tools: Python, Latex, Micro-Vision Keil, MPLAB, MATLAB, MS Office (Word, Excel & Power point). **Hardware:** PIC Microcontrollers, Atmega89C51, 8086 Microprocessor, Arduino, Digital Trainers, and Oscilloscopes **Simulation:** MATLAB Simulink, Proteus, and Xilinx.

Professional Training & Certifications

- ComSoc Summer School (2017 & 2018): Focused on IoT and ML for intelligent networks
- Outcome-Based Education (OBE) Training by QEC, GCU
- Internship at Pak Elektron Limited (PEL), Lahore – Hands-on exposure to industrial electronics

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Languages

- English (Fluent)
- Urdu (Native)

References: Can be provided upon request.