



Muhammad Ehtisham Zafar

Undergraduate Student

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Enthusiastic seeker doing B.Sc. in Mechatronics & Control Engineering. Self-starter with dynamic interpersonal, analytical and critical thinking skills. Self-motivated organized person with passion for technology and environment desired to create massive innovative impact in the field of science and technology. Team player with excellent communication skills and high quality of work.

Education

OCTOBER 2018 – PRESENT

Bachelor of Science (B.Sc.) – Mechatronics and Control Engineering

University of Engineering and Technology (UET), Lahore

Current CGPA: 3.234

AUGUST 2016 – AUGUST 2018

Faculty of Science (F.Sc.) – Pre-Engineering

Army Public School and College (APS&C), Bahawalpur Cantt

Graduated with 976/1100 Marks (FBISE)

Academic Experience

Experience gained from Semester Projects and Self-Learning:

Project 1: 5-12 V ANALOGUE TO DIGITAL CONVERTER

- Software and Technical Skills: Mastered **Proteus** software and technical skills (e.g. Printed Circuit Board (PCB) making, soldering etc.) and by making a device that converts 240 V AC supply to 5-12 V DC supply.
- Knowledge gained: Gained knowledge of Electronic Devices and Electric Circuits

Project 2: CONVEYER BELT AND GEARS DESIGN

- Software and Research Skills: Mastered **SOLIDWORKS** software and research skills by designing a conveyer belt and gears system for transmission of powdered materials in an industry.
- Knowledge gained: Gained knowledge of Machine Design, Power Transmission and calculation of its parameters (e.g. Diameter, Speed Ratio, Torque etc.), Assembly and Static Analysis in SOLIDWORKS, and concept of Sheet Metal Design.

Project 3: STUDENTS' ATTENDANCE PORTAL

- Software Skills: Learnt **Python Programming Language** on **Visual Studio Code** software by coding and designing a Graphical User Interface (GUI) of a *Students' Attendance Portal* where multiple instructors can manage attendance and information of unlimited number of students at a time.
- Knowledge gained: Gained knowledge of Procedural Programming, Object-Oriented Programming (OOP), Graphical User Interface (GUI) using Tkinter module, Data processing, Data Analysis, and Data Visualization.

Soft Skills

AutoCAD

Python

Solid Works

Proteus

MATLAB / Simulink

ANSYS

Keil uVision

Minitab

PLC Simulation

Robot Operating System (ROS)

Extra-Curricular Activities

SOCIETIES/CLUBS

- Member of **Iqbal Academy Pakistan** (2020 – Present)
- Member of **Lahore Young Leaders Leo Club** (2021 – Present)
- General Member (Team Documentation) of **The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)** (2019 – Present)

AWARDS & ACHIEVEMENTS

- Consecutive 2nd Position in Intra-Department Iqbal Day Quiz Competition 2018 & 2019, organized in collaboration with Iqbal Academy Pakistan (2018 and 2019)
- Elected College Head Boy at Army Public School and College (APS&C), Bahawalpur Cantt. (2017 – 2018)

Interests

Embedded Systems

Python Programming

Machine Learning

Artificial Intelligence

Modelling & Simulation