

MUHAMMAD AWAIS BAIG

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Education

UNIVERSITY OF ENGINEERING & TECHNOLOGY (CGPA: 3.516)

Lahore, Pakistan

Bachelor of Science, Mechatronics and Control Engineering

2017-2021

SUPERIOR COLLEGE OF SCIENCE, KALMACHOWK CAMPUS

Lahore, Pakistan

Intermediate (Pre-Engineering)

2015-2017

Professional Experience

Synthetic Products Enterprise Limited (SPEL)

Lahore, Pakistan

A renowned company providing its services in the field of injection moulding, blow moulding, mold development and manufacturing to its customers.

Trainee Engineer: (1st January 2022 – 1st July 2022)

- *Learned the concepts of injection moulding and worked on the quality assurance as well. Co-ordinated with vendors and stakeholders for continual improvements. Implemented a project (vision system) for faulty product detection for ensuring the quality of the product provided to the customer. Worked with QHSE Department for conducting site audit.*

Pak Elektron Limited (PEL)

Lahore, Pakistan

A known organization in the field of home appliances and transformers production.

Virtual Internship Program: (22nd September 2020 – 20th October 2020)

- *Worked as an engineering intern in Manufacturing – AD department of Pak Elektron Limited.*

AEW (ABID ENGINEERING WORKS)

Lahore, Pakistan

A reputable corporation providing its facilities in the field of engineering covering almost every nook and corner of modern technology.

Engineering Intern: (6th July 2020 – 2nd August 2020)

- *Monitored the ongoing project of the corporation regarding the PEB structures and worked as an internee project manager at the site for the construction of the shed for a rubber factory.*

Academic Experience

MECHATRONICS & CONTROL ENGINEERING

Lahore, Pakistan

Multiple Projects (2017-2022)

• Catch the Egg	<i>C++ computer Programming language</i>	(May-2018)
• Digital Calculator Design	<i>Digital Logics Design</i>	(Oct-2018)
• Taxi Fare Meter	<i>Embedded Systems</i>	(Apr-2019)
• Methane Detector with Humidity Control	<i>Instrumentations and Measurements</i>	(Dec-2019)
• Design of Torsion Testing Machine	<i>Design of Machine Elements</i>	(Dec-2019)
• Implementation of CNN Functions	<i>Intelligent Systems/Machine Learning</i>	(July-2021)
• To-Do List Web App	<i>JavaScript</i>	(May-2022)

Final Year Projects (2020-2021)

- **Development of Robotic Skin** Final Year Project (July-2021)

Developed robotic skin that has the sense of localization of touch using the phenomena of capacitance change and incorporated a GUI for visual representation in “Unity” environment. The data from the skin was transferred from microcontroller to the “Unity” using “Python” by socket communication.

Extracurricular & Volunteer Experience

UET MECHATRONICS CLUB

Lahore, Pakistan

Tech-Team (Oct 2017-May 2019)

- *Tech-Support: Supported the technical team members in creating their projects for the competition all over the country like in ‘RoboCom’*

IET CHAPTER UET

Lahore, Pakistan

Robotics Chapter Member (Sep 2019-July 2021)

- *Volunteered in organizing IET Robotics week and been a presenter at ‘Lahore Science Mela’s and exhibited my Project there and has worked side by side with my director for the growth of Society.*

Honors and Awards

AWARDS AND CERTIFICATIONS

Lahore, Pakistan

- Received merit-based Laptop Award from Prime Minister Pakistan(2019)

Additional

- *Skills:* C++, Python, PLC Programming, Java Script, AutoCAD, Proteus, Arduino, SolidWorks, MATLAB, Control Systems
- *Interests:* Gaming, Art & Craft
- *Language:* English, Urdu