UMAIR BIN AAMIR

MECHATRONICS ENGINEER

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I have recently graduated with honours in Mechatronics Engineering and this job will be my first proper step in professional world. I am a hardworking and committed individual who tries to get the work done in a most efficient way. If given the opportunity of working with you, I assure you that I will work hard with full commitment in achieving the goals of the organization.

ACADEMIC QUALIFICATIONS

Bachelor of Engineering in Mechatronics Engineering   CGPA 2.70/4.00
AIR University, Islamabad, Pakistan.
2014 - 2018

Faculty of Science in Pre-Engineering   715/1100
Punjab College of Science, Islamabad, Pakistan.
2012 - 2014

Matriculation in Science   815/1050
Islamabad College for Boys, G-6/3, Islamabad, Pakistan.
2010 - 2012

PROFESSIONAL EXPERIENCE

Engineering Intern
Pakistan Ordnance Factories, Wah Cantt, Pakistan.
07/2017 - 08/2017

- Examined and studied about bullets, shells and other ammunition manufacturing processes.
- Studied One Line Diagram and Power Distribution and practically analysed the processes involved in Power house.
- Observed and learned about various processes in different factories e.g. small and medium arms ammunition manufacturing, production designs, services and telecommunication.

MAJOR PROJECTS

Compressor-less Thermoelectric Refrigerator (Final Year Project)
- Automatic thermoelectric refrigerator having a minimum temperature up to 4 degrees.
- Capable of cooling down 3 to 4 cans within ten to fifteen minutes.
- Low power utilization and portable in size.

Autonomous Robot
- Programmed and designed an Autonomous Robot using different sensors interfaced with Arduino microcontroller.

Line Following Robot
- Designed, fabricated and programmed a Line Following Robot using sensors interfaced with PIC and 8051 microcontrollers.

Car Parking System

- Designed a prototype of automatic car parking system inside a shopping mall using sensors and FPGA.

Hearing Aid Device
- Developed a low cost Hearing Aid Device circuit for deaf people by using basic electronic components.

SKILLS & COMPETENCES

Software & Tools	AutoCAD, SolidWorks, RS Logix 500 (PLC), SCADA, MATLAB and Simulink, MPLAB, Quartus, Visual Studio, LABVIEW, Proteus
Languages/Platforms	C++, C, Assembly, Arduino, PLC programming, FPGA programming, Python
Microcontroller Interfacing	Arduino, Raspberry Pi
Productivity Suites	MS Office, Adobe PS

HONORS AND AWARDS

- **Department Final Year Project Winner (1st Prize), Open House'18, Air University, Islamabad.**

- **Deputy Head, Brain Computer Interface Competition, AirTech'17 held at Air University, Islamabad.**

- **Certificate of Participation in AirBot'16 held at Air University, Islamabad.**

SEMINARS ATTENDED

- **"Artificial Intelligence" December 22, 2017 at the WECREATE Centre, F-11 Markaz, Islamabad.**

- **"Brand Management in Zong" May 4, 2017 at the LTC Hall, Air University, Islamabad.**

- **"Energy for the Future" USPCASE Research Expo, April 25, 2018 at Serena Hotel (Shamadan).**

INTERESTS/ACTIVITIES

I am a good player of Carrom board, Cricket and Snooker. In my free time, I do socializing. I also enjoy traveling to new places. I also like to participate in debating and public speaking.

LANGUAGE SKILLS

I am Fluent in **Urdu, English and Punjabi.**