

# Muhammad Asim

To increase my knowledge in the field of Electrical Engineering and to participate in the global level research work on the relevant domains.



## Education

Center for Advanced Studies in Engineering (CASE), Islamabad.  
Bachelors of Science in Electrical Engineering, 2013-2017  
CGPA: 2.73

Fazaia Inter College, Kohat.  
Higher Secondary School Certificate (Pre-Engineering), 2011-2013  
Percentage: 73%

## Work Experience

Pakistan Aeronautical Complex (PAC), Kamra.  
Internee, 3<sup>rd</sup> July, 2017 - 14<sup>th</sup> July, 2017  
Debugging and testing of circuits at Pakistan Avionic Factory

Kohat Cement Factory Ltd.  
Internee, June 2016 - July 2016  
Learned practical working of Temperature Sensors and AC/DC Motors.

## Certifications

Programmable Logic Controller (PLC)  
SINA Institute, March 2018

## Projects

- Microprocessor (**FPGA Spartan 3/Xilinx ISE**)  
*Implemented Computer Architecture on Spartan 3 Kit to run specific set commands.*
- Mario Game (**FPGA Spartan 3/Xilinx ISE**)  
*Wrote Verilog code for PS2 (Keyboard) and VGA interface of Spartan 3 on Verilog to connect them together.*
- Traffic Control System (**FPGA Spartan 3/Xilinx ISE**)  
*Wrote Verilog Code to control Traffic Lights of a 4-way Exchange using Spartan 3.*
- Line Tracking Robot (**PIC18f4520**)
- Metal Detection Robot (**PIC18f4520**)
- Multi-Threading Chat Room Server (**Ubuntu**)
- NERC (National Engineering Robotics Competition)
- GPRS based iPhone GUI Inbox System (**C# Visual Studio**)

## Achievements & Co-Curricular Activities

- Winner of Speed Programming.
- Participated in National Engineering Robotics Competition 2016 (NERC).
- Member of Arts Society at CASE

## Final Year Project

Possessed Hand

- *Module for Rehabilitation of Stroke Patients to aid them in moving their hand.*
- *Acts as a Bridge between the Brain and Arm of a human being.*  
*Captured EEG brain data using EPOC Headset, filtered out specific signals from raw data, mapped the signals to commands which were sent to human arm via microcontroller. Tested various movements of arms against multiple subjects*

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## Skills

### Computer Languages

- C,C++,C#
- Verilog/VHDL

### Hardware

- PIC18F4520
- Xilinx Spartan 3
- Arduino

### Tools

- Xilinx ISE Design Studio.
- MicroWIN
- Microsoft Visual Studio.
- MATLAB.
- MPLab.
- Ubuntu Terminal.
- Cisco Packet Tracer.
- ModelSim.
- PCB Express.
- Multisim
- AutoCAD
- MS Project

### Interpersonal Skills

- Excellent communication skills developed during academic and work experience.
- Strong team leader with the ability to create and lead a team and a good team player with the ability to work in fast-paced environment.

### Hobbies

- Exploring Nature
- Hiking
- Computer games

### References

- Dr. Shoab A. Khan.  
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