

# Muhammad Omer

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## Education & Qualification:

- ✓ **University of Engineering and Technology, Lahore** (2015-2019)  
Bachelor of Engineering in Electrical Engineering
- ✓ **Fazaia Inter College Lahore Cantt** (2013 – 2015)  
F.Sc Pre-Engineering  
Percentage: **82.90%**
- ✓ **Fazaia Inter College Lahore Cantt** (2010-2012)  
Matriculation  
Percentage: **92.38%**

## Internship:

1. **PEL** (July 2018)

## Projects:

### Semester Projects:-

- **IOT based Industrial Monitoring System**
  - ✓ Monitors the various parameters like humidity and temperature of the plant or any other room and displays the graphical view online which can be accessed from anywhere. All the monitoring was done on online web called **Thingspeak**.
- **IOT based Home Automation**
  - ✓ Switching of the appliances was through android app completely online. This was done by IOT technique with combination of various circuitry modifications. No need to switch on/off the buttons. Just open the app, connect to server and control lights from anywhere in the world.
- **Fighting Robot**
  - ✓ 4-Wheeled robot was prepared as robotics project and was presented in **NERC'18 RoboWars**. The robot was made completely remote control with the help of Bluetooth module and android app. The mechanical design was modelled on AutoCAD.
- **Line Following Robot**
  - ✓ The robot was 3-wheeled line follower was built using sensors, motors and Arduino. This robot was presented in **RADA, University Level Robotics Competition**.
- **Sensor based Radar System**
  - ✓ Using **Processing** Environment a simple radar system was created which can help to detect obstacles on the way. Arduino controlled servo motor with a mounted sensor gives 180° view.

## **Final Year Project**

- **Optimization of Tilt Angle Using Dual Axis Tracker**

- ✓ Tilt angle of the PV panels was calculated using different techniques and compared it with the observed one. In addition to that fixed and dual axis tracker power comparison was made. All results were graphically represented and the optimized tilt angle came out to be  $2.3^{\circ}$ .

This project is focused mainly on power efficiency.

## **Honors and Awards:**

- ✓ I was awarded with 2<sup>nd</sup> Position in all Department Project Exhibition
- ✓ Awarded with the “Best Line Following Robot” in RADA Robotics Competition
- ✓ I received certificate of participation in NERC (Fighting Robot)
- ✓ Received the Appreciation for the FYP Project Idea
- ✓ I was the Video Production Head of UET FSD Media Club
- ✓ I was the Head of Photography Module of Inter-Universities Event (TechoScience '19)
- ✓ Represented UET FSD Football Team in Inter-Campuses Football Competition held in UET Lahore.

## **Other Skills:**

### **Leadership Skills**

- ✓ I was the leader of my Final Year Project Team.
- ✓ I have had the honor of leading University Football Team.
- ✓ I was the President of Sports Committee UET FSD.
- ✓ Lead Photography Team in Inter-Universities Competition.

### **IT Skills**

- ✓ MS Office
- ✓ HFSS & CST
- ✓ MicroWind
- ✓ MATLAB
- ✓ Adobe Photoshop, Premier

### **Presentation Skills**

- ✓ Presented the idea of “Business in Photography” in Inter-Universities Event (TechoScience'19)
- ✓ Lead the group in major Presentations (Technical & Non-Technical) on University level.

## **Interests**

- ✓ Technology Advancements
- ✓ Software Learning
- ✓ Football
- ✓ Photography

## **References**

- ✓ References will be presented on demand