



# Muhammad Shamaas

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## EDUCATION

**Lahore University of Management Sciences**  
BS (Electrical Engineering) - **CGPA/Grade: 3.81**

September 2014 - June 2018

## EXPERIENCE

**Lahore University of Management Sciences**

Teaching Assistant - Electrical Engineering

September 2017 – December 2017

I performed my duties as a teaching assistant for the course of EE330: Electromagnetic Fields and Waves for the assistant professor at my university.

**Rabtt Foundation**

Education Ambassador

July 2015 - August 2015

National Outreach Program: I visited many different tuition centers and schools in my neighborhood, including Government High School Kamran Block Campus, Swana School Ali Block Campus, Jamil Science Academy Kamran Block Campus and Zicas School Kamran Block Campus to distribute pamphlets, and to spread information about the LUMS National Outreach Program for a chance to earn the scholarship for undergraduate studies at LUMS.

## PROJECTS

- Sponsored Summer Research Project: I completed a Research project with my team for research and hardware development of a Local Oscillator Bank using the Phase Locked Loop Frequency Synthesizer Integrated Circuit MAX 2871 and HMC832. It involved FM communication with range of 3-3.5 GHz.
- Engineering Projects: I worked on 3D game development in MATLAB, Pulse Oximeter, Wireless Robot using Zigbee module, FM Modulator and Demodulator, Inverse Isolated SEPIC Converter, Direct Digital Synthesizer Simulation in OrCAD, Home Automation using Arduino-FreeRTOS and QT Linux Device Drivers for Mini 6410.

## ADDITIONAL SKILLS AND EXPERIENCE

- Specialization: My specialization is in Power Electronics.
- Softwares: I have experience in working with ETAP, PSIM, LTSpice, OrCAD, PTC Creo, Proetus, Simulink and Labview simulation software.
- Programming Languages: I can code in C, C++, MATLAB, Java, NS-3, HTML, Node.js, Modelica, Javascript, Haskell, Arduino, MikroC and assembly language.
- Engineering Final Year Project: My Electrical Engineering Senior Year Project was related to Packet Switched Call Center Simulation incorporating call abandonment, heavy call traffic, call drops and skill based routing in NS-3; and a WebRTC based Call Center Application in Node.js to study the effects of network congestion, variable propagation delays and transmission speeds on Quality of Service.
- Internship Program: I completed Sony Ericsson Online Training and Internship Program (September-December 2017).

## HONOURS AND AWARDS

Lahore University of Management Sciences Dean's Honor List 2016-2018.

## INTERESTS

Puzzles and Video Games

## EXTRA CURRICULAR

- Societies: I was a member of the Institute of Electrical and Electronics Engineers, IEEE society at Lahore University of Management Sciences.
- Inter-school Competitions: I participated in PsiFi 7 and PsiFi 8 Interschool competitions as a volunteer at my university.