

Muhammad Shamaas

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Education

Lahore University of Management Sciences

Graduated June 2018

BS Electrical Engineering.

1. Bachelors of Science as LUMS National Outreach Program Scholar with 100% scholarship.
2. Graduated with High Distinction (CGPA = 3.81 / 4.00).
3. Specialization in Power Engineering.
4. Attained LUMS Dean's Honor List Academic Achievement Award for 2016, 2017 and 2018.
5. Senior Year Project: Comparison of Erlang C Call Center Model, Erlang X Call Center Model and Real Call Center Results with Packet Switched Call Center Simulation in Discrete Event Network Simulator 3 (NS-3). The simulation incorporated call abandonment, heavy call traffic, call drops, virtual response unit and different routing schemes (Fastest Server First, Longest Idle First, Skill Based Routing and Lowest Cost Routing). The Results were also compared with a WebRTC based Call Center Node.js Application to study the effects of network congestion, variable propagation delays and transmission speeds on Quality of Service (<https://webrtccallapp.herokuapp.com/>).
6. Engineering Projects:-
 - 3D game development in MATLAB .
 - Pulse Oximeter PCB with LED Display .
 - Wireless Robot using XBee transceiver module.
 - FM Modulator and Demodulator .
 - Inverse Isolated SEPIC Converter (50V, 10W) .
 - Direct Digital Synthesizer (100 MHz) Simulation in OrCAD.
 - Home Automation using Arduino-FreeRTOS and WiFi Module ESP8266.
 - QT Linux Device Drivers for Mini 6410.

Employment History

Lahore University of Management Sciences

Lahore, Punjab

Research Assistant

February 2018 - June 2018

I completed a Research project for research and hardware development of a Local Oscillator Bank (3 - 3.5 GHz) using the Phase Locked Loop Frequency Synthesizer Integrated Circuits MAX 2871 and HMC 832.

Lahore University of Management Sciences

Lahore, Punjab

Teaching Assistant

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.

The Citizen Foundation

June 2018 - July 2018

Internship

I taught English to Secondary School Children in The TCF School Jhulkey, Lahore for four weeks.

The Rabtt Foundation

July 2015 - August 2015

Internship

I visited four schools to distribute pamphlets, and give presentations about the LUMS National Outreach Program Scholarships.

Professional Skills

ETAP, PSIM, LTSpice and Proteus Circuit Simulation Tools	Competent
MATLAB, Arduino and Simulink	Competent
Creo Parametric 3D Modelling Software	Intermediate
LabVIEW	Intermediate
C++, Java	Intermediate
JavaScript, HTML5, MongoDB and Node.js	Intermediate
Modelica	Beginner
Haskell, Python	Beginner