Muhammad Shamaas

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Summary

Completed O-Level (Science) in 2012 from Beaconhouse School System Garden Town Campus Lahore, A-Level (Pre-Engineering) in 2014 from Beaconhouse Gulberg Campus Lahore and Bachelors of Science in Electrical Engineering from Lahore University of Management Sciences in 2018.

Education

Lahore University of Management Sciences   Graduated July 2018
BS Electrical Engineering.

1. Bachelors of Science as LUMS National Outreach Program Scholar with 100% scholarship.
2. Graduated with 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.

Beaconhouse College Gulberg Campus Lahore   Graduated July 2014
A-Level (Pre-Engineering)

1. 3 A*, 1 A (IBCC Equivalent Marks: 86 %).

Beaconhouse School System Garden Town Campus Lahore   Graduated July 2012
O-Level (Science)

1. 5 A*, 3 A, 1 C (IBCC Equivalent Marks: 85 %).

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 ProgramScholarships.

Engineering Projects

1. 3D Pick and Place game in MATLAB .
2. Wall Following Robot Car.
3. 2 Digit Up-Counter using J-K Flip Flops with 7 Segment Displays.
4. Pulse Oximeter with LED Display .
5. Wireless Robot Car using XBee transceiver module.
6. FM Modulator and Demodulator .
7. Pole Balancing Robot using Simulink and Arduino.
8. Inverse Isolated SEPIC Converter (50V, 10W) .
9. Direct Digital Synthesizer (100 MHz) Simulation in OrCAD.
10. Home Automation using Arduino-FreeRTOS and WiFi Module ESP8266.
11. QT Linux Device Drivers for Mini 6410.
12. Senior Year Project: Comparison of Erlang-C Markov Chain Call Center Model, Erlang-X Markov Chain Call Center Model and Real Call Center Results with Packet Switched Call Center Simulation in Discrete Event Network Simulator (NS-3.26). 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/).

Professional Skills

1. Installation and maintenance of Wiring, Lighting and Electronics	Competent
2. Circuit Simulation Tools (ETAP, PSIM, LTSpice, Proteus, LabVIEW, OrCAD, Simulink)	Competent
3. Microcontrollers (PIC, Texas Instruments, Analog Devices, Maxim Integrated, Arduino)	Competent
4. 3D Modelling and Design Software (Creo Parametric 2.0)	Competent
5. C++, Java, MATLAB, JavaScript, HTML5, MongoDB and Node.js	Intermediate
6. Modelica, Haskell, Python	Beginner