

Muhammad Shamaas

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Education

Lahore University of Management Sciences

Graduated July 2018

BS Electrical Engineering.

1. LUMS National Outreach Program Scholar with 100% scholarship.
2. Graduated with CGPA of 3.81 / 4.00.
3. Specialization in Power Engineering.
4. Attained Gold Medal for Academic Achievement.

Beaconhouse College Gulberg Campus Lahore

Graduated July 2014

A-Level (Pre-Engineering)

1. Attained Merit Based Scholarship of 100%.
2. 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

Kohinoor Energy Limited

Raiwind, Punjab

Internship

February 2019 - April 2019

The valuable three month learning opportunity enabled me to experience the grand process of electricity generation in KEL furnace oil 124 MW power plant. I observed the Industrial Field operation and maintenance procedures for ABB HSG_1600S12 Synchronous Generators, Modicon 984 PLC System, 132/11 kV Power Transformers and the Transmission Grid.

Lahore University of Management Sciences

Lahore, Punjab

Research Assistant

February 2018 - June 2018

I completed a Research project for research and hardware development of Software Defined Radio 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

As a teaching assistant for the course of EE330: Electromagnetic Fields and Waves, I reinforced lessons by reviewing course material with students. I also checked assignments; and invigilated Exams/ quizzes.

The Citizen Foundation

Lahore, Punjab

Internship

June 2018 - July 2018

I taught English to Secondary School Children in The The Citizen Foundation School Jhulkey, Lahore for four weeks. My duties included formulating a teaching plan, conducting exams/ quizzes, and checking workbooks.

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

Engineering Projects

1. Course Projects: FM Trainer Board, Pulse Oximeter, Pole Balancing Robot, RC Car using XBee transceivers, DDS Cadence OrCAD Simulation, Home Automation using ESP8266, QT Linux Device Drivers for FriendlyARM Mini 6410 and Inverse Isolated SEPIC Converter.
2. Learned about Laboratory operation of Three phase Transformer, Synchronous Machine, Induction Machine and DC Machine.
3. Learned about HV Transformer Repair in Educational Trip to WAPDA Foundation Power Transformer Engineering Services Unit (PTESU), Kot Lakhpat Lahore.
4. Secured a certificate of appreciation for completing Sony Ericsson Online Training Program.
5. Senior Year Project: Electric Supply Company Call Center Simulation in Discrete Event Network Simulator (NS-3.26) based on Erlang-X Markov Chain Call Center Model and Real Call Center Results. The simulation incorporated call abandonment, heavy call traffic, call drops, virtual response unit, Agent Skills 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://electricall.herokuapp.com/>).

Professional Skills

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| 1. Installation and maintenance of Wiring, Lighting and Electronics; PCB Design, Testing and Debugging. | Competent |
| 2. Electromagnetic Simulation and Power System Simulation | Competent |
| 3. Programming Microcontrollers and Programmable Logic Controllers | Competent |
| 4. 3D Modelling and Design | Competent |
| 5. Computer Programming Languages: C++ and MATLAB | Competent |