Muhammad Shamaas

534 Kamran Block, Allama Iqbal Town, Lahore
Github: MuhammadShamaas1997/
04235414441
mshamaas1997@gmail.com

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 = 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. 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

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. Wall Following Robot Car.
2. FM Modulator and Demodulator.
3. Pulse Oximeter with LED Display.
4. 3D Pick and Place game in MATLAB .
5. Pole Balancing Robot using Simulink and Arduino.
6. Wireless Robot Car using XBee transceiver module.
7. Direct Digital Synthesizer (100 MHz) Simulation in OrCAD.
8. 2 Digit Up-Counter using J-K Flip Flops with 7 Segment Displays.
9. Home Automation using Arduino-FreeRTOS and ESP8266 WiFi Module.
10. QT Linux Device Drivers for FriendlyARM Mini 6410 Single-Board Computer.
11. Won a certificate of appreciation for completing Sony Ericsson Online Training Program.
12. Operation of 3 phase Transformer, Synchronous Machine, Induction Machine and DC Machine.
13. Inverse Isolated SEPIC Converter using PWM generator module, designed Inductor and Transformer.
14. Senior Year Project: Packet Switched 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://webrtccallapp.herokuapp.com/).

Professional Skills

1. Installation and maintenance of Wiring, Lighting and Electronics	Competent
2. Circuit Simulation Tools (ETAP, PSIM, LTSpice, PowerWorld, 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, Modelica and Node.js	Intermediate