

Safat Mahmood
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A combination of years of study and experience has provided me with the skills to communicate confidently with a diversity of people and to present information systematically with a high level of accuracy. I also have High level of computational skills in all areas and on a good amount of software and can learn new skills and software packages very quickly. I am also proficient in thorough research, design and practical or theoretical investigation as it was a vital area of my degree scheme and very dedicated, hardworking, versatile and self-motivated.

Academic Qualifications:

- ❖ **Masters of Science in Electrical Engineering** from **Prairie View A&M University**. [ongoing]
- ❖ **Electrical and Electronics Engineering [EEE]** from **Queen Mary University Of London**.

Final Year Project: Proportional, Integral and Derivative **[PID] controller-based Line Tracking Robot** (Used Micro-Controllers, Sensors, DC motors and C-programming)

Second Year Group Project: Designed a PCB and electronic circuit; to count and display different players/participants **reaction time** to an audio and visual signal. Connected to the computer using serial port, and designed software in Visual Basic to display the information on the Internet in real time. I was appointed as the Vice Group Leader.

Course-Work: LED lighting and Calculator system using keypad developed using the **Microcontroller** 8051 programmed in embedded C. Using of **Matlab** for signal, excel data and image processing. Also Used **VHDL** to program **Xilinx** Complex Programmable Logic Devices with associated design tools for the laboratory work.

- ❖ **A level Equivalent** from Chittagong Public School, Bangladesh.

Subjects : English, Mathematics, Physics, Chemistry, Biology

Result: A (Overall)

- ❖ **O-level Equivalent** from Ispahani Public School and College, Bangladesh.

Subjects : English, Mathematics, Physics, Chemistry, Biology, Bengali, Social science. **Result:** A+ (Overall)

Work Experience

Sept'15 - Ongoing	Prairie View A&M University	Research Assistant	Working for Center of excellence in Research and Education for big military Data Intelligence (CREDIT).
Sept'12 - Jan'13	Queen Mary University Of London Mile End ,UK	Teaching & Lab Assistant for undergraduate students	<ul style="list-style-type: none"> - Taking tutorial classes to help students with the studies and assignments. - Prepare and proctor Examinations. - Taking Lab classes. - Familiarise students with the instruments and software's. - Preparation of experiments for class use and demonstration purposes. Also spend time designing, improving and testing experiments for suitability and accuracy. - Supervise students for the 2nd year Group project. - Health and safety awareness and risk assessment.
Sept'12 - july'13	JD Joseph Ltd. 253-255 Putney Bridge Rd, London, SW15 2PU	Engineering Placement	<ul style="list-style-type: none"> - Confer with engineers, customers, and others to discuss existing or potential engineering projects and products. - Working with other engineers to design, implement, maintain, and improve electrical instruments, equipment facilities, components, products, and systems for commercial, industrial and domestic purposes.
June'11 - July'12	BMC Properties & Management Ltd. 11-12 Queen's Gate, London, SW7 5E	Sales Management + Engineering internship	<ul style="list-style-type: none"> - Worked as part of a team to manage the maintenance and installation of factory equipment. - Dealing with e-commerce revenues by looking for new ways to divert customers.

Key Skills

- Matlab, Multisim, C, C++, Familiar with Control Structures Advanced Datatypes, Functions, Arrays and Pointers, Input/output, Embedded C-C++ and Standard Library's.
- Xilinx- VHDL/Verilog Hardware Languages, FPGA/CPLD Development.
- Hardware – Soldering and Testing Hardware components on PCB and copper clad, etching, Integrating Bluetooth, Serial and parallel ports, infrared and Wi-Fi (IEEE 802.11b) components on hardware circuits.
- Micro-controller – Good knowledge of programming 8085/ 8086 microprocessor,8051/8951/8952/8953 microcontrollers and PIC microcontrollers – 12F, 16F and18F series using C and Assembly level language.
- HTML,CSS for web designing, also many more important software's.