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**MAHFUZ IMRAN**

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DOB: 28-10-1991

Age: 23

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* Achievement oriented and highly energetic Electronics graduate with strong passion in Computer Networking, Telecommunication, Microelectronics as well as Microcontrollers and Microprocessors.
* Possess excellent interpersonal skills coupled with solid verbally and written communication abilities.
* Demonstrated solid listening abilities and highly effective in working within high pressure situations.
* Known as a proactive problem solver and competent to think outside the box.

**Working Experience**

**IX Telecom Sdn Bhd (Malaysia)** ⧫ Mar 2014 – May 2014

**Trainee Engineer**

* Carried out Level-1 troubleshooting using Ping, Tracert, Telnet and OSI Reference Model.
* Replied emails while issued new tickets for problems as well as ensured clear understanding of the escalation list to provide 24/7 NOC support.
* Ensured strong knowledge on various monitoring tools including Solarwinds, Nagois, MRTG/Cacti and Op-manager.
* Successfully designed and implemented a Microcontroller (Arduino UNO R3) based Web server for the Data Centre to monitor temperature and humidity with feedback directly sent to NOC.

**Professional Training and Certifications**

* Will be seating for CCNA 200-120 vendor Exam (4th week of October 2015).
* CCNAx 200-120 classes in New Horizons CLC (July 2015 – October 2015)
* CCNAx 200-120 Routing and Switching, Udemy, License UC-DFB6FUI8 (September 2015)
* Linux Command Line Basics, Udemy, License UC-00WD1LN5 (June 2015)

**Education & Key Knowledge Areas**

**Bachelor of Engineering (Honours) Electronics (CGPA: 3.17/4),** Multimedia University (July 2015)

* Data Communication & Computer Networking
* Analog and Digital Communication
* Computer Organization & Architecture
* Microelectronic Circuit Analysis & Design
* Microcontroller & Microprocessor Systems
* Digital Integrated Circuit
* Digital Signal Processing
* Computer & Program Design with C
* Object Oriented Programming with C++
* Electromagnetic Theory & Interference
* Integrated VLSI Systems
* Digital Systems
* Processing and Fabrication Technology
* Machines & Power Systems
* Circuits & Signals
* Digital Logic Design

**GCE A-Level under Edexcel International (GPA 4/5),** Mastermind English Medium School (Jan 2011)

* Physics
* Further Mathematics
* Mathematics
* Chemistry

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**GCE O-Level under Edexcel International (GPA 4.57/5),** South Breeze School (September 2008)

* Physics
* Chemistry
* Mathematics
* Pure Mathematics
* Economics
* English
* Bengali

**Technical Strengths**

* Excellent skills in Designing Local Area Networks by comparing data networks and networking techniques, along with basic understanding of LAN protocols.
* Very good understanding and able to use Cisco Packet Tracer.
* Strong abilities in understanding specification sheets, datasheets, technical manual and user manual related to telecommunication, computer networking and electronic engineering field.
* Very good skill and able to analyze and determine functional as well as operational capabilities of any digital ICs, Microcontrollers and Microprocessors.
* Strong abilities in designing complex circuits based on datasheet of particular component coupled with superb understanding in microcontrollers and C/C++ programming language.
* Solid acumen in Electronic Engineering based simulators and programming software including C, C++, Assembly Language, Matlab/Simulink, Multisim, Proteus and PSpice.
* Adept in electronic devices including Resistors, diodes, Power diodes, Transistors and respective applications.

**Research Experience and Major Projects**

**Project undertaken during my Internship**

* Design and implementation of a Microcontroller based Web server to measure the temperature and humidity of the Data Centre and directly send them to the 24/7 Network Operation Centre (NOC). In this project an Arduino UNO R3 along with a DHT22, Ether shield and a buzzer was used.

**Final Year Project**

* Designed and implemented a multiplier-less DCT architecture using DSCH2 design schematic software and Microwind layout editor.
* Utilized the knowledge of digital logic design, digital ICs and Integrated VLSI systems.
* Designed an area efficient, low voltage and power efficient full adder with least propagation delay to derive other logical circuit blocks.
* Applied the circuit blocks in the multiplier-less DCT architecture with 70nm technology while conducted LVS and DRC test on each circuit.
* Successfully wrote and submitted a paper in Elsevier- Microelectronics Journal titled “A new hybrid full adder design for VLSI implementation of a low voltage & low power multiplier-free pipelined DCT architecture.”

**Capstone Project**

* Designed and implemented a Low cost Spectrophotometer for the analysis of Nanoparticle based Thin Film using a microcontroller circuit.
* Utilized an Arduino mini pro to control the rotational movement of the spectrophotometer with an IR Remote controller connected to the microcontroller.
* Implemented the breadboard prototype design on a PCB using Eagle PCB design software while analyzed the thin film with spectral workbench using a webcam.

**Extracurricular Involvement and Achievements**

**Active member of IEEE Multimedia University, Cyberjaya Campus (2012 - 2015)**

* Supported the organization of TEDx MMU under IEEE MMU.

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**Achieved the Dean’s list award trimester 3 2014/2015**

* Dean’s List was awarded with GPA above 3.67 in the final year project (FYP).

**Treasurer of TEDx Multimedia University**

* Managed and controlled the finances while appointed Timekeeper of the main event.
* Oversaw the expenditures for events organized by the club while managed the funds collect through the sales of tickets.

Participated in the Orientation Series Events Chinese Language Society (MMU)

**Active member of Mastermind Community Service Club (Year Oct 2008 - Dec 2010)**

* Worked with Ashic Foundation (a project working with cancer affected children)
* Worked in the committee for fund raising by food sale
* Worked for the toy and winter clothes collection for poor and orphan children

Used to play Carom, Badminton and cricket throughout my entire high school life

**Extracurricular activities in South Breeze school (Until Sep 2008)**

* Best in Computer Science Subject (Year- 2007)
* Won the best (Honours) category award at the Science fair (Year- 2007)
* Recipient of numerous awards in drawings, paintings and sports competition at school

## IT & Language Skills

MS Word | MS Excel | MS PowerPoint | MATLAB |Cisco Packet Tracer|Wireshark |C Programming C++ Programming| Mentor Graphics | DSCH2 Schematic Editor | Microwind Layout Editor | Arduino IDE | Microsoft Visual Studio | Codeblocks |Multisim |Proteus | Eagle PCB design software

IELTS Score 6.5 (Speaking 7.5, Listening 7.0, Reading 6.0 and Writing 6.0) | Bengali | Hindi

## References

Dr. C. Senthilpari, Senior Lecturer

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