



Muhammad Umar Shahzad

To get career oriented job in a professional-environment, offers utilization of skills & provides learning opportunities to seek up-to-date knowledge & gain practical experience for today's competitive environment.

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Education

- B.Sc. Electrical Engineering (Electronics) (2012-2016) 78.8 %**
Centre for Emerging Sciences, Engineering & Technology (CESET, Islamabad) Affiliated with the ISLAMIA UNIVERSITY BAHAWALPUR
- Higher Secondary School Certificate (2012) 67.0%**
Islamabad Model College for Men (H-9), Islamabad, affiliated with **FBISE**
- Secondary School Certificate (2010) 69.4%**
F.G. Model School (for Boys) (I-10/2), Islamabad, affiliated with **FBISE**

Work Experience

- Internee at *A.H. Automations Pvt. Ltd, I-9 Islamabad (in NADRA Project for designing of Token Displays, Caller Units, Q-sik) (July 2013 – Sep 2013)*
Major Responsibilities included: Components-Assembling & Soldering, Wire Dressing, Testing after the Designing, Repairing
- Internee at *A.H. Automations Pvt. Ltd, I-9 Islamabad (in Designing PLC Trainers for different Institutions & Arduino Experiments Performing) (Jan 2014 – Dec 2014)*
Major Responsibilities included: Components-Assembling & Soldering, Control Wiring, Cabling & Wire Dressing, Testing after the Designing, Repairing
- One Month paid Internee Job at *Private Project of Byte Sol. (UK Company), (in Designing New Technology, the conversion of Arduino UNO R3 into the Superduino with TFT LCD Module, having multiple Specifications)*
Major Responsibilities included: Components-Assembling & Soldering, Program Burning & Testing, Jig Making & fitting Modules in Jig, Cabling & Wire Dressing & Repairing.
- Internee at *Lets Innovate Pvt. Ltd, D-17 Islamabad (in Development of Internet of Things based Smart Applications i.e., Smart Home Applications, Smart Watch) (Sep 2015 – Sep 2016)*
Major Responsibilities included: Final Year Project Development & Completion, Smart Switching Boards Development
- Currently Working at *CESET, I-10/3, Islamabad as a Research Assistant & Lab Technician. (Oct 2016 – Up-till Now)*
- Part-Time Students Projects Designing (After University Classes)

Interested Areas

- Control & Automation
- Robotics
- Digital Design

Awards & Achievements	Year
Naat & Milli-Naghma Competitions at School	2009-2011
Quaid-e-Azam Badge in Scouting	2008
Quiz & Software Competitions at <i>CESET</i>	2013
Speed Wiring at <i>Tectiq's15</i>	2015
Poster Competition at <i>APPC'15</i>	2015
Best Ambassador Award at <i>FETEX'16</i>	2016

Technical Skills Set

Software Tools

- AutoCAD
- MATLAB
- Android Studio (with SDK Manager + Network Socket Tester)
- Circuit & Layout Design (Proteus, Express PCB, Fritzing)
- EMU 8086
- Keil uVision, MPLAB, Arduino
- PLC Softwares
 - WPL-Soft (Delta PLC)
 - Siemens Step-7 for S7-200
 - Mitsubishi
 - LD-Micro (Arduino Compatible & ModBus)
 - PLC Logix Pro
- Cisco Packet Tracer
- Mentor Graphics
 - ModelSim
 - Xilinx
- RS232-Serial Communication
 - PUTTY Terminal
 - Hyper Terminal
 - Arduino Serial Monitor

Sensors

- Opto-Electronic Sensors
- RFID
- Thermistors
- Ultra-Sonic/Sonar
- GSM
- Gas Sensor
- Fluid Level Sensor
- EMG Sensor

Programming Devices

- Micro-Stick (DSPIC33F Kit)
- Arduino + ModBus
- PIC16F, PIC18F
- ATmega8, ATmega328
- 8051

Certifications	Year
Naat Competition at School & College Level	2009, 2011
Scouting	2008-2010
Quaid-e-Azam Scout	2008
Quiz Competition at <i>CESET</i>	2013
Software Competition at <i>CESET</i>	2013
PCB Designing Certificate	2013
Micro-Controller Interfacing Competition at <i>FETEX'15</i>	2015
Speed Wiring at <i>Techtiq's15</i>	2015
Poster Competition at APPPC'15	2015
Speed Wiring at <i>NASCON'16</i>	2016
Micro-Controller Interfacing Competition at <i>FETEX'16</i>	2016
Speed Wiring Competition at <i>FETEX'16</i>	2016
NERC Robotics Workshop at <i>FETEX'16</i>	2016
Best Ambassador Award at <i>FETEX'16</i>	2016
Naat Competition at <i>AirNexus'16</i>	2016
Microsoft	2016
HP-Global	2016
Optical Fiber Workshop by SINA Islamabad	2016
PLC/SCADA Professional Training	2017

Final Year Project & Research & Development

Internet of Things (IOTs) Applications in Home Automation

- Project under Supervision of Sir Malik Anas Ahmed (Lecturer at CESET) Sir Ali Syed (Senior Lecturer at CASE University, Islamabad) & their Team of *Lets Innovate Pvt. Ltd.*, Islamabad.
- Reduction of resources, i.e. Memory, Power Resources & Automating the whole Electrical Appliances at Domestic & Industrial Level, to reduce the Electrical Power Crisis & Human-Involvement.
- Implementation of some kind of *Artificial Intelligence*, to control & monitor the Processes occurred.
- Development of Mobile Application through Multi-Threading.
- Inter-link the Hardware, i.e., the *Electrical Appliances* with the *Wireless (WiFi Module-ESP8266)*.
- Interlink the Hardware Designed, i.e., *Electrical Appliances*, with *Mobile Application* (to be developed a *GUI* in *Android Studio*) through WiFi.
- Implementation of Serial (RS232) Communication with Server, using Micro-Stick (DSPIC33F Development Board).
- Also a Research Paper Published under International Journal of Science Engineering and Advance Technology, (IJSEAT), Vol. 5, Issue 1, ISSN 2321-6905| January -2017.

Conductive Ink/Paint (Research Work)

- Controlling the Conductivity of Carbon/Graphite (reducing the resistance) in molten State, to be used as a tool for constructing any Electronic Circuit on any non-conductive surface, without any need of Soldering & Wiring.

Conductive Glass Formation & Leading to Solar Cell Fabrication (Research Work)

- Constructing the Conductive Glass by using some of the new Scientific Techniques, to be used as a cheap source of Solar Cell Designing.

Programming Languages

- C++
- C & μ C
- Ladder

Memberships

- IEEE
- Worked as a *Coordinator* of *Bazm-e-Adab Society*, for two years.
- Working as a *President* of *CESET Science Society*.

Soft Skills

- Dependable & Reliable
- Good Interpersonal & Communication Skills
- Good Listening & Language Skills
- Team Player

Other Skills

- Microsoft Office (Complete)
- MS Operating System (Windows 98, Xp, 7, 8, 10)
- Corel Draw Graphic Designing
- Computer Programming
- Urdu Inpage
- Audio Transcription

Co-Curricular Activities

- Scouting
- Sports (Table Tennis, Badminton)
- Computer Games
- Scientific Fiction & Electrical-Electronics Projects
- Naat, Milli Nagma, Urdu-English Debates, Short Plays

References

Will be furnished on demand