

PERSONAL INFORMATION

Muhammad Talha Shafique

PEC Registered Engineer



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🌐 <http://electronicsgateway.blogspot.com>

Sex Male | Date of birth 2 Dec 1997 | Nationality Pakistani

CAREER OBJECTIVE

To gain the ability of analyzing engineering problems, evaluating and recommending alternatives and communicating recommendations. I desire to gain quality experience that will allow me to take full advantage of my degree. In addition, I am eager to contribute my creativity and hard work towards the success of your organization and to the growth of the fast-developing field.

WORK EXPERIENCE

12 Feb 2018–31 May 2018 Internship at National Institute of Electronics (NIE)

Engineer Shahid Khan. In-charge Power Electronics Lab, Islamabad (Pakistan)

- Power Electronics
- Circuit Designing
- Troubleshooting

3 Jul 2017–11 Aug 2017 Internship at NECOP, NESCOM

Sir Khalid Jamil Azizi Dir. Applied Technologies, NESCOM, Islamabad (Pakistan)

- Embedded System Design
- Remote Terminal Unit (RTU)
- LabView, Orcad, Circuit Wizard, Flowcode

EDUCATION AND TRAINING

22 Sep 2018 – on going

MOOC “The Arduino Platform and C Programming”
University of California, Irvine (Coursera)

28 Aug 2018 – on going

MOOC “An Introduction to Electronics”

Georgia Institute of Technology (Coursera)

13 Aug 2018 – 13 Sep 2018

MOOC “An Introduction to Programming the Internet of Things”
University of California, Irvine (Coursera)

31 Jul 2018

BS Electronics Engineering 3.69/4.00 CGPA
International Islamic University, Islamabad (Pakistan)

- Power Electronics, Embedded Systems
- Control Systems, Electronic Circuit Design
- Very Large-Scale Integration (VLSI Design)
- Microelectronics Technology, Digital Logic Design

- FPGA
- Digital Signal Processing
- Digital Image Processing
- Instrumentation and Measurements

31 Jul 2014 **Intermediate (1st Division)**

Government post graduate college, Sahiwal (Pakistan)

- Mathematics
- Physics
- Chemistry

30 Jun 2012 **Matric (1st Division)**

Government high School, Mirzapur, Khanewal (Pakistan)

- Mathematics
- Biology
- Physics
- Chemistry

PERSONAL SKILLS

Mother tongue(s) Punjabi

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Urdu	C2	C2	C2	C2	C2
English	B2	B2	B1	B1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

Communication skills ▪ Team work: I have worked in various types of teams and contribute in different projects.

Organizational / managerial skills ▪ Organized a seminar on "PLC & SCADA" in our department.

Job-related skills

Areas of interest

- Analog, Digital and Power electronics
- Design Embedded System
- Microcontroller and its applications
- Programming (C, Verilog, VHDL)

Key skills

- PLC and SCADA (under training)
- Microcontroller and its applications
- Embedded Systems
- Programming (C, Verilog, VHDL)

I have experience to work on following software.

- MATLAB
- LabView
- Proteus
- Pspice
- Xilinx

- ModelSim
- Mentor graphics (Pyxis Schematic, PyxisLayout)
- Leonardo Spectrum
- Silvaco TCAD
- LTspice
- Arduino
- Atmel Studio
- Keil u-Vision
- Packet Tracer
- mikroC
- Flowcode
- Orcad
- Diptrace
- Multisim
- Circuit Wizard
- Logisim
- TRIM
- Adobe Photoshop
- MODBUS
- MS Office

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Independent user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Runner up of micro-controller interfacing, FETEX 2016

- Competent with most Microsoft Office programs.
- Microsoft word specialist certificate.
- Know little bit of Adobe Photoshop and Adobe illustrator.

Otherskills

- Enjoy all sports particularly cricket. Love to travel and experience different cultures.
- Love to read Novels.
- Regular reader of Newspaper.
- Always looking forward to learn new computer languages and diverse courses.

ADDITIONAL INFORMATION

Semester Projects

- Keyboard interfacing using FPGA
- GUI based image processing using MATLAB
- Transform calculator using MATLAB GUI
- Switch Mode Power Supply 220V AC to +5V, +12V, +24V DC @ 1A Using PWM IC
- Switch Mode Power Supply from 12V DC battery to four isolated 12V, 5V DC @ 1A
- Linear Power Supply +5V, +12V, Variable 5-12V Using Linear Regulators
- Automatic Door Opening Using Arduino UNO and Servo Motor
- Temperature Controlled Switching of Room Appliances Using PIC16F877A
- Remote Terminal Unit (RTU) Using PIC16F877A
- Traffic Signal Control Using Flowcode and PIC16F877A Internship

Final Year Project Online Pure Sine Wave High Frequency UPS with Power Factor Correction

Main modules of the project are

- Power Factor Corrector
- Pure Sine Wave Inverter
- 12V DC Battery to 330V DC Push Pull converter
- Battery Charger
- 12V DC battery to four isolated 12V DC and 5V DC supplies @ 1A.

Software tools: mikroC PRO for PIC, OrCAD Capture, Proteus

Presentations

- Contribute of Muslim scientists in the field of Neuroscience
- Doping profile and Doping techniques
- Two Nation Theory
- Project Management
- FYP

Achievements

- Fully funded PM's National ICT Scholarship holder for BS Electronic Engineering degree.
- Final Year Project was fully funded by Ignite National Technology Fund.
- Microsoft word specialist certificate.
- Runner up of micro-controller interfacing, FETEX 2016
- Got scholarship from University of California for the course "Introduction to Internet of Things and Embedded System"

References

Mr. Khalid Jamil Azizi

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National Electronics Complex of Pakistan, NESCOM, Islamabad.
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Dr. Wasim Khan

Assistant Professor
International Islamic University, Islamabad.
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