



# Muhammad Shafay

## Electrical Engineer



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February 13, 1997



<https://bit.ly/2MoVKd>



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### Why *Shafay*?

- Proficient, innovative & talented electrical engineer having familiarity with digital electronics, distributed control system, grid station and power plant. Highly skilled in identifying, scrutinizing, improving and streamlining complex processes. Adept at electronic circuits, relays & transformers and integrated circuit designs
- Competent individual possessing capability and software proficiency over variety of applications including C, C++, MATLAB, LtSpice, Verilog HDL, NI Multism, Proteus, Arduino and MPLAB. Has ability to work with small and large scaled teams on different tasks to achieve finest results in minimum time frame
- Insightful team player capable of rendering deliverables to complex problems by researching information to develop, evaluate and implement solutions for bringing inceptions to reality. Passionate engineering professional with ability to analyze and recommend suitable alternatives and solutions. Has excellent communication and persuasive skills with capability to negotiate effectively with third party contractors and vendors

### CORE STRENGTHS & ENABLING SKILLS

- |                                 |                            |                                     |
|---------------------------------|----------------------------|-------------------------------------|
| ▪ Electrical Engineering        | ▪ Operations & Maintenance | ▪ C, C++, MATLAB & LtSpice          |
| ▪ Measurement & Instrumentation | ▪ Digital Electronics      | ▪ Verilog HDL & NI Multisim         |
| ▪ Distributed Control System    | ▪ Relays & Transformers    | ▪ Proteus, Circuit Design & Arduino |

### PROFESSIONAL EXPERIENCE

#### **Ibrahim Fibres Limited, Faisalabad, Pakistan**

Worked as “*Internee*”, July 2017 to August 2017

##### **Responsibilities/Accomplishments:**

- Capably learned different tools and techniques of measurement & instrumentation. Adeptly got myself familiarized with working of PLC related software
- Proficiently worked with seniors to gain insight of distributed control system. Adroitly participated in relevant operational activities to understand power plant functionality

#### **Faisalabad Electric Supply Company Limited, Faisalabad, Pakistan**

Worked as “*Internee*”, June 2016 to August 2016

##### **Responsibilities/Accomplishments:**

- Skillfully learned about practicality of protection of instrumentation department. Competently gained understanding of grid station and distribution system
- Competently worked to achieve understanding of functioning of different types of relays. Adeptly contributed in learning activities to know more about working of different types of transformers

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## PROFESSIONAL QUALIFICATION

- **Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad, Pakistan**(2014– 2018)  
BS - Electrical Engineering (Electronics) CGPA: 3.51/4
- **Punjab College of Science, Faisalabad, Pakistan**(2012– 2014)  
F.Sc–Pre Engineering

### ***Final Year Project:***

- Skillfully completed project on “*Automatic Wireless Level Control System*”; this system aimed wireless control water level inside tanks and displayed it on centralized display module. Zigbee technology was used to successfully establish wireless connectivity between different modules and Arduino Uno Boards were used as Brains of System

### ***Academic Projects:***

- Successfully completed project on “*Banknote Authentication Using Support Vector Machine (SVM)*”
- Successfully completed project on “*Implementation of Infinite Impulse Response (IIR) Filter on FPGA*”
- Successfully completed project on “*Design of 220/1kVA Sinusoidal PWM Inverter Powered By a Single 12V Battery*”
- Successfully completed project on “*Design & Implementation of an Audio Amplifier*”
- Successfully completed project on “*Design of Timing Sequential Circuit for a 4-way Traffic Signal*”

### ***Memberships & Associations:***

- Honourably served as “*Chairperson*” of IEEE PIEAS Student Branch from April 2017 to March 2018
- Honourably served as “*General Secretary*” of PIEAS Thematic Society from September 2016 to February 2017
- Honourably served as “*Head of Management Division*” of IEEE PIEAS Student Branch from May 2016 to March 2017
- Honourably served as “*Member*” of PPAS (PIEAS Performing Arts Society) from 2014-2017
- Honourably serving as “*Member*” of PIEAS Volunteer Society since 2015
- Honourably serving as “*Member*” of PIEAS Literary Society since 2015

### ***Events Organized:***

- Successfully organized “*IEEE Insight'15*” at PIEAS in October 2015
- Successfully served as part of “*Security Team*” of Nukta'15(National Level Event) held in PIEAS
- Successfully served as “*Deputy Head of Management Team*” of PIEAS National Olympiad 2016, (PiON'16, National Level Event)
- Successfully organized “*IEEE Insight'16*” at PIEAS in October 2016
- Successfully served as part of “*Management Team*” of IEEE International Conference on Emerging Technologies 2016 held in October 2016
- Successfully participated in “*Management*” of Twin Student Branch Project (Energy Conservation & Environmental Protection) held in November 2016
- Successfully contributed as “*Head of Security Team*” of Nukta'16 (National Level Event)
- Successfully contributed as “*Director of Management Team*” of IEEE Islamabad Section Congress 2016 in December 2016
- Successfully served as “*Coordinator of Management Team*” of PIEAS National Olympiad 2017 (PiON'17, National Level Event)
- Successfully participated as “*Coordinator of Management Team*” of IEEE Islamabad Industrial Biennale 2017
- Successfully contributed as “*Mentor of Management Team*” of PIEAS National Olympiad 2018 (PiON'18, National Level Event)