

# Saad Khalid

Electrical Engineer

- House No. D-48 POF Sanjwal Cantt Attock
- +92-340-5759893
- saadkhalid943@gmail.com



## Objective

To work with maximum potential in a challenging and dynamic environment, with an opportunity of working with diverse group of people and enhancing my professional skills with learning and experience for career growth.

## Work Experience

### Engineering Intern

#### 1-PAKISTAN ORDINANCE FACTORIES SANJWAL CANTT

Aug-Sept 2016

- Visited and analyzed construction of 5 MW Solar Power Plant.
- Visited Gas Power Plant and analyzed its different stages.
- Analyzed Operation of grid equipment like transformers, relays, circuit breakers, CT, PT etc.
- Monitored and Analyzed High and Low-tension panels.

#### 2-Ghani Glass Ltd Hattar

Aug-Sep 2017

- Work at power house including Gas power plant and Diesel power plant.
- Examined the TCD system to control and synchronize the AC motors through sensors and inverter.
- Surveyed level indicator, temperature sensor and electronic heater.
- Observed high and low tension panels.

#### 3-Ghazi Barotha Power Complex WAPDA

Feb-Mar 2018

- Analyzed the operation of Power house capacity of 1450MW.
- Work at Instrument, Transformer deck and control room.
- Observed the switch yard of 500KV and 220KV transmission.
- Examined all protection device like relays, circuit breakers, isolator switches.

## Education

### COMSATS Institute of Information Technology, Attock

Bachelors of Science in Electrical Engineering (2013-2017)

CGPA: 3.12 / 4.00

### Army Public School & College, Attock Cantt

HSSC Pre-Engineering (2011-2013)

Marks: 768 / 1100

### Sir Syed School Sanjwal Cantt, Attock

SSC Science Group (2009-2011)

Marks: 821 / 1050

## Skills and Strengths

- **Electrical/Electronic Software's:** Proteus, Simulink.
- **Microcontroller Interfacing:** Arduino, 8051.
- **Programming Languages:** C/C++, MATLAB, Assembly Language.
- **Technical report writing:** Written more than 9 comprehensive reports in course projects.
- **Management skills:** Team Work, Communication Skills, Time management.
- **Microsoft Office:** Microsoft Word, Excel and Power Point.

## Final Year Project

### GSM Based Home Security System

- Saves home/apartments from the Gas leakage and Fire ignition.
- Whenever gas leakage occurs, exhaust fan operates to exhaust the gas from room.
- Provided password door locking system to stop the entrance of unknown person in home.
- Provide motion detection on the home windows to protect home from thieves.
- Operate buzzer/siren on every interruption and send text to defined number.

## Academics Projects

- **Digital Voltmeter**  
Designed a digital voltmeter using 8051 micro-controllers.
- **Buck-Boost Converter**  
Buck-Boost designed using PWM generated by 8051 micro-controllers.
- **Fire Alarm System**  
A simple Fire-alarm system using fire alarm sensor and transistors. A continuous beep is produced upon sensing fire.
- **Electronic Door Lock**  
Electronic door lock designed using logic gates.

## Award & Achievements

- Presented the final year project at **Student Start-up Business Center**, established by COMSATS Institute of Information Technology.
- Received **Merit Scholarship** from POF WAH Cantt Board for outstanding academic performance.
- Certified Member of **Pakistan Engineering Council (PEC)**.
- Received certificate for attending **Latex** workshop.
- **Microsoft Office Proficiency Certificate** for attending 3-months training.
- Received full Academic Scholarship from **Federal Benevolent Fund**.