Muhammad Awais Akbar

Electrical Engineer

I'm an electrical engineer with robust knowledge and expertise of 1 year in industrial automation at PLC and embedded systems. I have learned technical procedures that developed an effective and efficient embedded solution with no tolerance for errors. I'm very ambitious and intend to accomplish a lot in my lifetime.

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◇ EDUCATION

Bachelors in BSc Electrical Engr & Tech
Riphah International University
18/11/2018 – 29/07/2022   *Islamabad, Pakistan.*

Intermediate in DAE Electrical
Jinnah Polytechnic Institute
07/11/2015 – 07/09/2018   *Faisalabad, Pakistan.*

◇ SKILLS

- Embedded C
- PLC/HMI Programming
- Industrial Automation
- Electrical Testing
- Troubleshooting

◇ SOFTWARE

- PCB Designer
- Platformio/Arduino
- keil (ARM-MDK)
- ESP-IDF
- Visual Studio

◇ WORK EXPERIENCE

Internship | Trainee Engineer
EPTeck Technologies Pvt. Ltd.
07/03/2022 – 15/09/2022   *Faisalabad, Pakistan.*

- Worked on register level at different Microcontrollers like Atmega328P, ESP32, and STM32 and interface multiple sensors with these microcontrollers and also work these protocols - SPI, I2C, UART, ADC, Timers, PWMs, FreeRTOS, and PCB designing on KI-Cad.

Internship | Trainee Engineer
Sadaqat Limited Industry
18/10/2021 – 29/05/2022   *Khurrianwala, Faisalabad, Pakistan.*

- Worked with electrical erection team on saga bleaching plant for a complete installation, also worked with troubleshooting team on processing unit for safely run the machinery, and also worked with electronics lab team for repair electronic devices

◇ PROJECTS

Design and implementation of advanced and intelligent Geothermal Heating & Cooling System by using ESP32.
Advance Embedded System
02/08/2022 – 03/09/2022

- Designed cooling and heating systems to replace air-conditioners using geothermal energy. Used Arduino IoT cloud to program esp32 microcontroller. It was programmed to control the fan, LED lights, room temperature and humidity (DHT-11) from a mobile and web server.

PLC Based Automation of industrial Process with HMI.
Final Year Project (FYP)
31/12/2020 – 24/06/2021

- Designed a fully automated industrial project in three different sections by using PLC, and monitoring & controlling on HMI. Auto & manual controlling of the industrial storage tank to do, maintaining the necessary air pressure of the coning machine, maintaining the required temperature of the dyeing machine for the cleaning process, these functions are performed by using a level sensor, pressure sensor (10 bar), temperature sensor (PT100) & multi transducer for PT100, and a 2AD card for the analog-to-digital converter were used