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SKILLS

OBJECTIVE:

My goal is to be associated with an organization where I can utilize my skills and gain further experience while enhancing the organization’s profitability and reputation.

Education

CASE (Center for Advanced Studies in Engineering), U.E.T Affiliated, Islamabad Pakistan

B.Sc Electrical Engineering (CGPA 3.18)
Completion Year: June 2018

Askaria College, Rawalpindi (Federal Board)

FSC (Pre-Engineering) Percentage 72.36

Standard High School, Rawalpindi

Matric (Federal Board) Percentage 77.23

Work Experience

Internship at National Institute Of Electronics (NIE), Islamabad.

Projects

- File Searching in C on visual studio.
- Key logger Project in C# on visual studio.
- Digital Clock Project in Digital Logic Design.
- Step down Transformer in machines.
- Microprocessor designing of Intel 8086 on XILLINX and FPGA implementation
- ADC on MATLAB
- Enterprise Network Based On OSPF
- Robot movement control using magnetometer and PID implementation.
- Line tracking robot with PID implementation(also participated in national competition of line tracking)
- Participated in National NERC robotics competition(Robot in war situation for aid supply)
- Implementation of client server model using Linux(ubuntu).
- Traffic lights control on OMRON PLC trainer using Cx programmer based on ladder programming.
- AES/DES encryption/decryption algorithms on Visual studio.

Final Year Project

IOT BASED INDUSTRIAL AUTOMATION

Description:

This project is based on IoTs and 4th Industrial revolution.
In this project we have made an **IoT nodes** for industrial machines which can be used to monitored and control the power of machinery and other industrial environment and to check the status of machines securely on main station outside that environment through **Wi-Fi and RF** .We have created a **mesh network** for data sharing between nodes and all the data transmission is encrypted by **AES**. We have used **Stm32 microcontroller, node mcu and RF module** in one node and **current sensor, temperature sensor and humidity sensor** of industrial grades were used. **Raspberry pi** was used as a super node collecting all information having **web application** running based on php, JQuery.

Engineering Tools

Designing

PCB designing work using

- **ALTIUM designer,**
- **Proteus.**
- **Express PCB.**

Coding Languages

- **C, C++**
- **PHP, JavaScript(JQuery)**
- **SQL/MySQL**

Softwares/IDEs

- **Visual Studio, Arduino IDE, Eclipse.**
- **MATLAB**
- **Kiel mdk, Linux operating system.**
- **Cx programmer for PLC.**

Hardware

- **Arduino Mcu**
- **Stm32, pic Mcu.**
- **Raspberry pi microprocessor.**
- **Worked on PLC Trainers (Omron).**

Protocols working experience

- **SPI, I2C, USART.**

Network communication

- **TCP, UDP.**
- **Good Understanding of OSI Model.**

Word Editor & Spreadsheet

- **MS Word.**
- **MS Excel.**

Database

- **MS Access, Sql server**
- **Xamp server(php myadmin,mysql)**

Project Management and Project Architecture

- **MS Project**
- **MS Visio**

Presentation & Designing

- **MS PowerPoint**
- **Google Slides**

Interpersonal Skills.

- **Good Management skills.**
- **Good communication skills.**
- **Strong leadership and Presentation Skills.**
- **Collaborative Problem Solving.**
- **Strong team player with the ability to create team, coach & lead.**
- **Confident Person.**

LANGUAGES:

- **Urdu**
- **English.**