

ZAIN UL ABIDEEN

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Summary

Astute and versatile youngster possessing expertise in circuit designing, programming, electric machinery, power transmission and distribution, project managing, digital designing, analysis and development of various electronic instruments and devices. Adapted to work and learn individually whilst handled some group project as leader. Eager to share services and broaden the personnel horizon with your prestigious organization in the foreseeable future.

EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology

BS-Electrical Engineering

Swabi, KPK

Sep 2020 – Jun 2024

- Awarded DHL
- CGPA: 3.74/4

Aga Khan Higher Secondary School

Higher Secondary (Intermediate) Education

Karachi, Sindh

Sep 2018 – Jun 2020

- A1 Grade
- Highest Class Grade

LEADERSHIP EXPERIENCE

Team Technobolt

Director of Electrical at TechnoBolt

- Train newbies on how the team works and taught them the different module of robotics.
- Managed 3 teams as a module head for different competitions such as NEO23, YOUTH ROBO 23, etc.

PROJECT EXPERIENCE

Brain Tumor Detection

- The program will take MRI-images as input and will detect and outline the tumor if found any. It was built on MATLAB.

Remote Control Car

- Built the RC-car for a racing competition and won. Construction and coding was done based on the nature of competitions.

Transmission Line Losses Compensation

- Improved the voltage regulation from 80% to 98% of a transmission line with use of capacitor banks. Varying loads on consumer side were compensated with different capacitive values.

Implemented the LIFI System

- Li-Fi is a light communication system. Transferred the 8-bit data to smartphone using LIFI with the encoding and decoding of the data.

Net Cafe Management Program

- Made a program for a local net-cafe, using C++. It managed the record of members their data usage records and bills etc.

Self-Driving Prototype Car

- Object detection or maze-solving car. 3-Ultrasonic and 2-infrared sensors were used and were programmed on Arduino micro-controller.

Facial Recognition Program

- Made a facial recognition program for PC. Machine Learning and Computer Vision (OpenCV) were used for training and recognition in program. Could detect 5 faces at a time.

Transformer

- Analysis and designing of a 65VA transformer for a specified building. The rating was obtain by the load analysis of the building which was reduced down by the factor of 10.

SKILLS & PERSONAL

Languages: English (proficient), Urdu (proficient)

IT: Office Package (Word, Excel, PowerPoint), MATLAB, Python, C++, Proteus, Arduino, PCB Designing, Creative Writing, Simulink, Knowledge of Sensors, Worked with different Electrical Machinery, PLC Programming

Interests: Football (UCL, PL, Laliga), traveling, reading (fictional)