Hafiz Ahmad Hassan

Electrical Engineer

I am committed to applying my knowledge and skills to create innovative solutions to real-world challenges. My passion for the field is matched by my drive to continuously learn and grow, and I am excited to explore new areas of electrical engineering and contribute to the advancement of the industry and always eager to tackle the complex engineering problem.

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EDUCATION

Bachelors in Electrical Engineering (Candidate)
Namal University, Mianwali
08/2020 - Present *CGPA: 3.4/4*

Intermediate (Pre Eng.)
Abdul Razzaq Fazaia College MM Alam, Mianwali
04/2017 - 04/2019 *Grade: A+*

Matriculation
Govt: Comprehensive High School Mianwali
05/2015 - 04/2017 *Grade: A+*

WORK EXPERIENCE

Remote Internship
Burraq Engineering Solutions:
01/2022 - 02/2022
Achievements/Tasks
- Completed a remote internship with Burraq Engineering Solution Company, a leading engineering firm specializing in industrial automation solutions
- Gained hands-on experience in PLC programming, HMI design, and SCADA system development

Internship Training
Agritech Limited (Formerly Pak American Fertilizer Limited)
06/2022 - 07/2022 *Iskanderabad Mianwali*
Achievements/Tasks
- Gained valuable experience in the field of mechanical engineering.
- Learned a variety of projects, including engine turbines and different types of gauges.
- Gained practical knowledge of industry standards and safety procedures

Internship Training
Faisalabad Electric Supply Company:
08/2022 - 09/2022 *Mianwali*
Achievements/Tasks
- Internship at FESCO 132Kv Grid Station Mianwali
- Gained practical knowledge and experience in Capacitor Banks, AC, and DC power supply.

SKILLS

Python | MATLAB | AutoCAD | Raspbian | Porteous | OrCad | Report Writing

PROJECTS

Noise Removal
- Developed a MATLAB algorithm to remove noise from AM and FM-modulated signals. This involved analyzing the signal characteristics, designing a filtering approach, and testing the algorithm on noisy signals.

Boost Converter
- Designed and built a boost converter to enhance the performance of a solar panel system. The boost converter was designed to convert the low voltage output of the solar panels to a higher voltage that was suitable for the system's requirements

Traffic Light
- Designed and implemented a traffic light circuit on a breadboard using different ICs. The circuit was able to simulate a real-world traffic light system, with different lights for each direction of traffic and a pedestrian crossing. The circuit used various ICs, such as 555 timers, counters, and logic gates, to control the timing and sequencing of the lights

ML Based Seed Classification and Controlled Sowing System (FYP)
- Designing a system that uses machine learning to classify the health of seeds and control their sowing. The system takes images of individual seeds and uses computer vision algorithms to analyze their health based on various parameters such as color, shape, and texture. Based on the analysis, the system determines whether the seed is healthy or not and then sows it using a controlled sowing mechanism. The project involves developing a custom image processing pipeline and implementing machine learning algorithms using Python and TensorFlow

HONORS & AWARDS

Hafiz e Quran

Certificate Name

Avail of fully funded scholarship at NAMAL University

Certification of Python & Image processing at Coursera

INTERESTS

Machine Learning | Image Processing | Power Electronics | Electric Machine | Control System