Muhammad Nashit Quddus

Address: House # D-37 Right Bank Colony WAPDA, Tarbela, district Swabi | Phone: +92 306-1934526 |
Email: nashitquddus1@gmail.com

Electrical Engineer

EDUCATION

COMSATS University Islamabad, Sahiwal Campus *Sahiwal, Pakistan*
Bachelor of Science in Electrical Engineering *2016 - 2020*

- *Courses:* Microprocessors and Microcontrollers, Electrical Circuit Analysis, Digital Signals and Systems, Control Systems, Data Communication and Computer Networks, Power Electronic, Electrical Measurements and Instrumentation, Electrical Machines
- *Cumulative GPA:* 3.01/4.0

EXPERIENCE

WAPDA Hydel Power Plant Tarbela (4880 MW) *Tarbela, Pakistan*
Electrical Engineer Intern *Jan 2021 – March 2021*

- Maintenance of 500KV switch yard including different types of circuit breakers.
- First-hand experience with auto transformers and 160MVA power transformers stepping up voltages from 17.3KV to 500KV.
- Learned about the generators of different units generating 13.8KV and 17.3KV at rated speeds.
- Learned about different relays and other safety equipment used in the safety of a unit such as differential relays and governor system.

WAPDA Hydel Power Plant Chashma (184 MW) *Mianwali, Pakistan*
Electrical Engineering Intern *July 2019 – Sept 2019*

- Firsthand work experience in line maintenance and learning of controls and machines of the power plant.
- Learned about the working of a transformer and basic power distribution systems.

PROJECTS

Autonomous Fire Brigade Robot (Final Year Project)

- A self-operating robot which is capable of detecting fire using a camera via image processing techniques and then is able to move towards the fire to extinguish it.
- Sensors help the robot to increase its efficiency and to keep it from a safe distance with the help of humidity and temperature sensing.
- Raspberry Pi was used to implement the Python based program to make the robot operational.

Modelling and Designing of a Quadrotor using Simulink

- Model the equations of Quadrotor in Simulink environment, then design the controller and fly it.

Line Following Robot

- Implementation of PID controller on an Arduino to make a line follower robot.

Self-Balancing Robot

- MPU6050 and Arduino were used to design the robot.
- The robot was able to move back to its original straight vertical position if disturbed without falling.

Autonomous Solar Tracking System

- Used a PIC microcontroller to control a stepper motor in accordance with the LDR sensors data mounted on all the edges of a solar panel

Bluetooth controlled Home Appliances

- Development of a prototype system to control home appliances using a HC-05 Bluetooth module and relays

TECHNICAL SKILLS

- MATLAB
- Arduino
- Python
- Packet Tracer
- LaTex
- LTSpice
- Assembly
- Auto Cad
- Simulink
- Proteus

Interests: Embedded Systems, Power distribution and generation and Electric Machines.