

# Muhammad Hamza Naqi

BE Electrical Engineer

A highly motivated, adaptable and responsible engineering graduate seeking for a job which will develop my organizational abilities through my involvement and working as a trainee.

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## EDUCATION

### Bachelors of Electrical Engineering

NUST (National University of Sciences & Technology)

09/2014 – 06/2018

3.66/4.00 CGPA

### A Levels

KIMS, Lahore

09/2012 – 08/2014

3A\*s

## WORK EXPERIENCE

### Quaid-e-Azam Thermal Power Limited

Apprenticeship

07/2018 – Present

Working as a trainee at 1180MW Combined Cycle Thermal Power Plant.

Skills Acquired

- Detailed overview of all the systems for the optimum operation of RLNG fired Gas Turbine and Heat Recovery Steam Generators.
- Detailed overview of the Generators, Transformers and Switchyard as well as the Power Transmission and Protection System of the equipments.
- Assisting operation engineers in acquiring the operation data and further analyzing it for efficient operation of the plant

### Intech Process Automation

Internship

07/2017 – 09/2017

Skills Acquired

- PLC Structure, architecture, I/O Modules, Communication protocols etc.
- Control System Architecture Design of a facility.
- PLC Ladder Logic Programming.

### Schneider Electric

Internship

06/2016 – 08/2016

Worked under the team of dedicated engineers setting up the Power System of Packages Mall.

Skills Acquired

- Single Line Diagrams of the facility.
- Practical knowledge of Power Distribution and Protection System particularly Transformers, Switchgears, LV and MV Panels, Circuit Breakers, Relays etc.

## PROJECTS

IoT based Water Management System using LoRa

- Implemented smart IoT based water system monitoring and controlling using LoRa (Low -Powered Long--Range) wireless communication protocol.

Self-Driving Car

- Deploying the model of image segmentation, pedestrian detection to run in real-time on NVIDIA Jetson TX2.

Face Recognition

- A facial recognition software developed using Open Source Computer Vision (OpenCV) algorithms by optimizing them to improve accuracy.

Smart Voting Machine

- Smart Voting Machine employing the feature of database verification and voter authentication to ensure security and real time result monitoring.

Wireless Power Transfer through Energy Harvesting

- A device enabling wireless charging of electronic device through transmission of RF energy and reception using a rectifying antenna.

## SKILLS & INTERESTS

- MATLAB, LabVIEW, Automation Studio, PLC
- Industrial Automation, IoT, IoT Automation
- Power Word Simulator, MS Office, MS Project

## ACHIEVEMENTS

Recipient of NUST Merit-Based Scholarship

Received consecutively in every semester since the start of the degree for outstanding GPA.

Winner Telenor Social Hackathon 2015

Developed an application to address social issues. Winner of the competition.

## LANGUAGES

English

Full Professional Proficiency