

Waqas Ali

Electrical Engineer

Innovative Electrical Engineer with a proven track record of evaluating electrical systems.



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EDUCATION

BS Electrical Engineering Namal University Mianwali

08/2019 - Present

GPA 3.31/4

PERSONAL PROJECTS

IoT Based Smart Irrigation System with weather Forecasting (09/2022 - Present)

- Developing a low-cost smart integrated crop management system
- Weather forecasting-based smart irrigation, soil condition monitoring, and drainage management system
- All parameters are accessible in real-time through mobile app/Web-based applications.

Speech Recognition Using Matlab (07/2022 - 08/2022)

- Developed the speech recognition model using the MATLAB
- Correlation algorithms were implemented to train code
- Code was tested for security applications

Low Cost Electrical Charger (07/2022 - 08/2022)

- Designed a low-cost electrical charger using the PCB board for the solar cell
- System was able to reduce the voltage from 12 to 3 volts using the buck converter
- Used 555 timer IC for switching of MOSFET

Computer-controlled syringe system using the Arduino (06/2021 - 08/2021)

- It was basically a medical project
- Motivation was COVID-19 patients and COMMA patients
- System was able to deliver fluid volume based on the time interval input

WORK EXPERIENCE

Electrical Intern SM Food Maker's, Multan

07/2022 - 09/2022

Pakistan

Achievements/Tasks

- Performed the cable sizing calculations for domestic & heavy industrial loads
- Got training & education on complex high-power electrical systems
- Developed a model in MATLAB to Perform root cause analysis for Power Outage in factory

Contact : HR Manager - hr@smfoods.pk

SKILLS

MS Office

C

C++

MATLAB

MySQL

HTML

CSS

Python

Java

Proteus

Autocad

Energia

Microchip Studio

Packet Tracer

Wireshark

Anaconda

Logisim

PSpice

MATLAB Simulink

ACHIEVEMENTS

Event Manager at IEEE Namal (2021 - 2022)

General Secretary at Namal Student Council (2022 - 2023)

CERTIFICATES

Merit Based PEEF Scholarship Certificate (2021 - 2023)

Partition in Hands On Arduino Workshop (02/2020)

LANGUAGES

English

Full Professional Proficiency

Urdu

Native or Bilingual Proficiency

Punjabi

Native or Bilingual Proficiency

INTERESTS

Web-Development

Machine Learning

AI

Internet of Things

Wireless Communication