

# ABDUL SAMAD KHALID

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## Education

**Bachelor of Electrical Engineering**

INFORMATION TECHNOLOGY UNIVERSITY.

**Lahore, Pakistan**

2018-2022

## Professional Experience

### • **AL-TIZAM Group of Companies, Lahore:**

June 2020- August 2020

Worked as a Trainee Engineer for three months. Invested many hours in order to develop business skills (communication, leadership, problem solving, teamwork, etc.) that will help me make a deeper impact on the job.

### • **Autogenics Automation, Lahore:**

June 2021-August 2021

Worked as a Trainee Engineer for three months. Learn how to automate industrial process. Learn about Equipment's that is used in Industry for Industrial automation.

**Free-Lancing:** Done many freelancing projects in C++, python and Ladder logic coding. Jan 2020- August 2022

## Academic Experience

### **Supervision and Automation of Energy Efficient HVAC system (FYP | Automation with PLC and Machine Learning).**

Team-Lead:

December 2021 – June 2022

• **Automation:** Automation of HVAC (Heating Ventilation and Air Conditioning System) using PLC (Programmable Logic Controller) and then to make it more Energy Efficient we have decided to build a model in machine learning.(Future Work)

• **Supervision:** Supervision of HVAC system through SCADA system in case of any fault it will try to resolve the error or report the concerned person.

### **Sepformer: Attention is all you need in Speech Separation (Term Project | Using Pytorch).**

A transformer that separates two different voices merged together.

December 2021- March 2022

• **Research:** Complete Research and study of different journals to solve the problem of separating voices that are merged together.

• **Implementation:** Use of Sepformer transformer to separate between different voices that are merged together.

### **Library Management System (Term Project | Using C++).**

A complete solution for management of books.

December 2020 - March 2021

• **Data-Base:** Keeping the Record of all the books present in the library w.r.t author, volume and other aspects.

• **Management:** Keeping the record of all the people that borrow books. Generating issue date and return date for the book. Managing fine for late submissions.

## Online Courses & Certifications

### **Introduction to Python fundamentals -Coursera– University of Colorado Boulder**

June 2022 - August 2022

• Learned and practiced using data structures in python.

• Creating and managing databases and accessing web data.

### **Introduction to Machine Learning -Coursera– Duke University**

June 2022 - till onwards

• Learned about Neural networks and their building block (Perceptron).

• Learn about LSTM, Transformers, Generative Adversarial Network(GAN).

## Extracurricular & Volunteer Experience

### **Nusrah Foundation**

**IT Support:**

Lahore, Pakistan

April 2021 – August 2020

An NGO organization founded as a social welfare project to help people in need through ration packages.

• Managed social media and team collaboration for whole batch of 40+ fellows.

• Trained members in using SLACK to better communicate with each other.

## Skills

- |                   |            |                |              |                    |                 |
|-------------------|------------|----------------|--------------|--------------------|-----------------|
| • Python          | • Ubuntu   | • C & C++      | • JavaScript | • Machine Learning | • Deep Learning |
| • MATLAB          | • NI-ELVIS | • Python       | • Pytorch    | • Ladder Logic     | • SCADA         |
| • Communication   |            | • Teamwork     | • Laborious  | • Problem Solving  | • Persistent    |
| • Time Management |            | • Enthusiastic |              |                    |                 |