

Saad Ahmad

BACHELOR OF ELECTRICAL ENGINEERING

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“Be a yardstick of quality.”

Summary

I am an Electrical Engineer as well as a freelance Software developer. I am interested in Internet of Things, Intelligent Robotics, Artificial Intelligence as well as Web / Mobile / Desktop Application Development. I love to read and attempt to implement new research papers and techniques relevant to my fields of interest. I also like to learn new programming languages, frameworks and methods to make my work more efficient and amazing.

I am currently pursuing Masters of Advanced Engineering (Electrical Engineering) from Monash University, Clayton Campus. I have completed my Bachelor of Electrical Engineering from National University of Sciences and Technology, Pakistan.

Education

Monash University

MASTER OF ADVANCED ENGINEERING - ELECTRICAL ENGINEERING

Clayton Campus, Australia

Aug 2019 - Present

National University of Sciences and Technology (NUST)

BACHELOR OF ELECTRICAL ENGINEERING

- CGPA: 3.52/4.00

H-12, Islamabad, Pakistan

Sep. 2015 - May 2019

Work Experience

Pak-Arab Oil Refinery Ltd.

ENGINEERING SERVICES INTERN

- Planning, designing and execution of electrical engineering tasks of the projects being carried out at the oil refinery.

Punjab, Pakistan

Jul. 2018 - Aug. 2018

ABB Power and Automation Ltd.

SALES & UTILITIES INTERN

- Exploring ongoing projects in the country and devising strategies to sell the products and services provided by the company.

Lahore, Punjab, Pakistan

Jun. 2017 - Aug. 2017

Sugar Mills, Thal Industries

ELECTRICAL ENGINEERING INTERN

- Checking and carrying out proper maintenance of instrumentation in the process area of the sugar mills.

Layyah, Punjab, Pakistan

Jun. 2016 - Aug. 2016

Skills

Programming Python, MATLAB, C/C++, C#, JavaScript, PHP, Node JS

Libraries OpenGL, OpenCV, Keras, PyTorch

Electrical Design Multisim, Proteus, Adobe Eagle

Web Laravel, Redux, ReactJS, Vue.js, HTML, CSS, LESS, SASS

Desktop / Mobile Applications Electron, Xamarin, React Native, PhoneGap, Ionic

Computer Networking WebRTC, MQTT, Wireshark

Languages English, Urdu

Projects

1. **Brain Computer Interface**, User Interface leveraging Steady State Visually Evoked Potential.
2. **Dance moves extraction from video**, Extracting 3D skeleton of dancer using Pose Estimation.
3. **Face detection**, Implementation of FaceNet.
4. **Tele-operation of Micro Cell Injection System**, using WebRTC and MQTT technology.
5. **roVBot**, WebRTC based, globally tele-operated observation robot using internet.
6. **glass.h**, a simple 2D graphics library in C/C++ based on GLUT.h.