Osama Imran

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EDUCATION

Bachelor of Electrical Engineering (BEE)
Sept 2013- Jun 2017

National University of Sciences & Technology
CGPA: 3.03

HSSC (Pre-Engineering)
Sept 2011-Jun 2013

OPF Boys College H-8/4 Islamabad
Marks Secured: 929/1100 Percentage: 84.45

SSC (Science)
Sept 2009-Jun 2011

OPF Boys College H-8/4 Islamabad
Marks Secured: 946/1050 Percentage: 90.09

SKILLS SUMMARY

- Highly skilled and performance-focused electrical engineer
- Highly proficient in technical decision making, building and managing complete products.

TOOLS & TECHNOLOGIES

- MATLAB Lab View C/C++ Proteus Pspice ADS Mikro C Pro Microsoft Office PLC Programming RS Logix Pro FX-TRN-BEG AutoCAD Multisim Keil

MICROCONTROLLERS USED

- Arduino Boards, STM 32, Peripheral Interface Controller(PIC), 8051

JOB EXPERIENCE

- Currently working as a Lab Engineer in EE (Electrical Engineering) department of NUST SEECS (School of Electrical Engineering & Computer Science) since October 2017

ACADEMIC PROJECTS

Automated Multistoried Car Parking System Using Microcontroller (Final Year Project)
A prototype model was developed in which stepper motors were controlled by microcontroller to control vertical and circular motion of stepper motors to park the car in nearby vacant slot in the prototype structure.

Emotion Detection Using EEG (Electroencephalogram) Signals (Digital Signal Processing 6th Semester)

EEG signal extracted from brain using electrodes was convoluted with FIR filter to extract alpha and beta bands of EEG signal. The different features of alpha and beta bands like mean, peak of power spectral density, variance and standard deviation were compared with online dataset and corresponding feature extracted using SVM machine learning classification technique.

Automated Tube Well Control (Electronic Circuit Design 5th Semester)

A tube well motor was controlled through STM 32 Micro Controller and android application was developed to create, edit and delete instances of times for which the tube well motor needs to run. This automatic turn on and turn off of motor was helpful in saving the water loss and preventing motor damage if user forgets to turn off the motor after turning it on.

Face Detection Using Haar Cascade Algorithm (Signals and Systems 4th Semester)

Haar casacade algorithm present in an open source library called Open Computer Vision Library (OpenCV) was used for deception detection and emotion capturing. The core basis for Haar classifier object detection is the Haar-like features. Haar-like features are digital image features used in object recognition.

HONOUR & AWARDS

- Awardee of OPF Boys College H-8/4 Islamabad Scholarship for brilliant students in Matriculation
- Awardee of Merit Based Scholarship in Intermediate Studies at OPF Boys College H-8/4 Islamabad
- Awardee of GPA Scholarship in 6th semester of Bachelor Degree