AMBER GUPTA

Course   : **B.Tech**, Electronics and Communication Engineering, 2020
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PERCENT : 85.23

ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	City Montessori School	ISC	97.5 %	2015
CLASS X	City Montessori School	ICSE	89 %	2013

SUMMER INTERNSHIP / WORK EXPERIENCE

Intern, Kuruganti Comupters PVT,LTD.   **Aug 2017 - Mar 2018**

Kuruganti Computers is an MSME company which has been manufacturing products for engineering laboratories for more than 70 years.Specifically lab equipments for colleges.These products include an extensive range of electronics, mechanical, mechatronics and control engineering products.
I joined Kuruganti computers in order to get a hands on experience in product development.This involves various stages of product development from feasibility study to research and development to final product.I worked on a number of products during this long duration.Initially as a part of basic training I learned component identification,soldering,PCB circuit tracing,PCB assembly and testing.After this I moved on to manufacture my own power supply and a tachometer trainer kit.I also learned assembly language and FPGA based VHDL programming.

PROJECTS

Face Tracker using OpenCV - Image Processing   **Feb 2019 - Apr 2019**

In this project our aim was to track the faces which occur in front of the camera.for this task we used a raspberry pi and a camera to capture and process the image data.we tried out different techniques for facial recognition.we used PCA for facial recognition which generates the eigen faces and focuses on the components which have the maximum variance.in this manner we were able to track the face.My job in the project was to explore different methods, including PCA ,which allow us to identify the faces.

Spectrum Analyser - Internet of things   **Jun 2018 - Nov 2018**

Spectrum Analyser is a internet of things and cloud based project which provides a cheap alternative solution for bench top spectrum analyser.The project was made using node MCU and STM32 as microprocessor.The project involved storing of received signal in digital format which is then transformed using FFT algorithm.

POSITION OF RESPONSIBILITY

President of Digital Image Processing and Programming Club - SRM Institute of Science and Technology   **Nov 2018 - Present**

I am currently holding this position of president of DIPP club.As the president of this club i conducted a workshop digital image processing using OpenCV in python language.I have been involved in educating the students about image processing and python.In near future I have plans to conduct more workshops based on machine learning.

AWARDS AND RECOGNITIONS

Fractal | The Mathematical Association dept. of Mathematics SRM   **Mar 2017**

I received first prize in mathematical modelling competition.My project was based on mobius loops and its application.

CERTIFICATIONS

NAME	CERTIFYING AUTHORITY
Programming, Data Structures and Algorithms using Python	NPTEL

LANGUAGES KNOWN

Hindi, English, German