

Shubham Jain

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Objective

To secure a position in this organization where I can enhance my technical skills and contribute to the growth of this organization.

Education

Master of Technology

In Digital Communication, 2016

CGPA: 8.38

Maulana Azad National Institute of Technology,
Bhopal (M.P)

Bachelors of Engineering

in Electronics and Communication, 2014

CGPA: 6.80

University Institute of Technology-Rajiv Gandhi
Proudyogiki Vishwavidyalaya, Bhopal (M.P)

AISSCE, 2010 (12th, CBSE): 76.8% | School : Kendriya Vidyalaya No. 2, Bhopal

AISSE, 2008 (10th, CBSE): 72 % | School: Kendriya Vidyalaya No. 2, Bhopal

Skills

Programming Languages: C/C++, Python (OpenCV, Flask) HTML5, CSS3, JavaScript

Tools: Qt Creator, MATLAB, OpenCV, TensorFlow, LabView, Altium Designer (PCB designing)

Preferred Fields: Computer Vision/Image Processing, Deep Neural Networks , Embedded Systems

Experience

Capgemini Technology Services India Limited

July 2016 to Present

Project 3: POC on Object Classification (ADAS)

Aug 2017 to Present

- Multiple Object Classification using TensorFlow in Video
- Role : Developer

Project 2: Resource Tracker Tool (Internal Project)

July 2017 to Aug 2017

- Tool for automating resource tracking process.
- Created using Python, Flask, HTML, CSS, JavaScript
- Role: Developer

Project 1: Boon Edam Connector Dashboard

Oct 2016 to May 2017

- Dashboard Interface to manage several doors (say 150).
- Managing doors involves viewing the door lists, checking their status, capturing images using stereovision cameras, motor drive control, snoozing doors, global parameter setting, etc.
- Role : Tester (NodeJs, Selenium, MySQL)
- Responsibilities :
 - Writing Test Cases for all the features of Dashboard.
 - Creating database for different scenarios.
 - Performing tests and updating Test cases for new feature requests
 - Create Summary Reports for the tests Performed and Procedures

Training :

July 2016 to Oct 2016

- UI Development on Qt Creator, C++
- SDLC, STLC, Agile

Academic Projects

Unauthorised Vehicle Detection in Dedicated Lanes

Aug 2015 to April 2016

- Detects and classifies the moving object as Bus/Truck/Car/Two Wheeler/Pedestrian in the dedicated lanes for BRTS vehicles.
- Video captured from a stationary camera (day time).
- Implemented on MATLAB (using Computer Vision Toolbox).

Wireless Switch :

Oct 2015 to Feb 2016

- A 2 port device which can instantly convert any AC appliance/switch into IR Remote controlled.

- Aim of this project was to develop a cost effective solution for modern needs which also reduces the waste of old appliances

Dec 2014 to Feb 2015

Internet of Things based security system:

- Notifies the user in case of intrusion through SMS, e-mail, Facebook post and tweet.
- Also activates the connected DVR/video camera and streams the video on the Internet.

August 2013 to Feb 2014

Nearby Vehicle Positioning System using V2V communication:

- Vehicle to vehicle communication through ZigBee protocol.
- Uses GPS to locate its own position.
- Displays relative location of nearby vehicles on a LCD installed in the car.
- Implemented and tested on 2 cars.

Jan 2013 to April 2013

Drowsiness detector:

- Through image processing it detects if the driver is drowsy.
- Implemented using Matlab and Arduino.

Mini projects : Line follower Robot | Automatic Overhead tank filling system | Quiz Buzzer System | FM Transmitters

Training

Embedded Systems and PCB Designing from StarBru technologies.

Aug 2012

- Design and implementation of basic embedded systems
- Worked on technologies like Zigbee, GPS, Bluetooth, RF, IR, etc.
- Single Layer PCB designing basics.

June 2013

Communication System in Indian Railways

- Studied the existing communication system of Indian Railways.
- Also studied Passenger Information system, which includes IVRS, Auto Announcement System, Coach Guidance System, and Master-Slave Clock.

Activities and Achievements

- Feb 2016, won First Prize in Bhopal Vigyan Mela-2016 (organised by MPCST) for making "Wireless Switch".
- Feb 2015, won Second Prize in Savishkar-2015, held at MANIT, for making "Internet of Things based Security System".
- Scored 99.2%ile in GATE 2014, ECE stream (total students: 216367).
- Mar 2013, participated in technical paper presentation competition (Topic: Preventing rural migration by employment generation) held under PEHAL 2013 at State Museum, Bhopal.
- Oct 2012, Won 1st prize in CIRCUITOUS (circuit designing competition) in Technosearch 2012, held at MANIT.
- Jan 2012, Quarterfinalists in Wild soccer (Robo Soccer, made 4 wireless robots) and Gearloose (Air Powered vehicle design competition) in Techkriti 2012 at IIT Kanpur.