

# Shubham Jain

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## Objective

To secure a position in this project 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 (12<sup>th</sup>, CBSE):** 76.8% | **School :** Kendriya Vidyalaya No. 2, Bhopal

**AISSE, 2008 (10<sup>th</sup>, CBSE):** 72 % | **School:** Kendriya Vidyalaya No. 2, Bhopal

## Skills

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

Softwares: Qt Creator, MATLAB, Proteus, LabView, Altium Designer (PCB designing)

Preferred Fields: Computer Vision/Image Processing, Deep Neural Networks (TensorFlow), 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).

Oct 2015 to Feb 2016

1 of 2

	<b>Wireless Switch :</b> <ul style="list-style-type: none"> <li>• A 2 port device which can instantly convert any AC appliance/switch into IR Remote controlled.</li> <li>• Aim of this project was to develop a cost effective solution for modern needs which also reduces the waste of old appliances</li> </ul> <p style="text-align: right;">Dec 2014 to Feb 2015</p>
	<b>Internet of Things based security system:</b> <ul style="list-style-type: none"> <li>• Notifies the user in case of intrusion through SMS, e-mail, Facebook post and tweet.</li> <li>• Also activates the connected DVR/video camera and streams the video on the Internet.</li> </ul> <p style="text-align: right;">August 2013 to Feb 2014</p>
	<b>Nearby Vehicle Positioning System using V2V communication:</b> <ul style="list-style-type: none"> <li>• Vehicle to vehicle communication through ZigBee protocol.</li> <li>• Uses GPS to locate its own position.</li> <li>• Displays relative location of nearby vehicles on a LCD installed in the car.</li> <li>• Implemented and tested on 2 cars.</li> </ul> <p style="text-align: right;">Jan 2013 to April 2013</p>
	<b>Drowsiness detector:</b> <ul style="list-style-type: none"> <li>• Through image processing it detects if the driver is drowsy.</li> <li>• Implemented using Matlab and Arduino.</li> </ul>
Training	<b>Mini projects :</b> Line follower Robot   Automatic Overhead tank filling system   Quiz Buzzer System   FM Transmitters
	<b>Embedded Systems and PCB Designing from StarBru technologies.</b> <p style="text-align: right;">Aug 2012</p> <ul style="list-style-type: none"> <li>• Design and implementation of basic embedded systems</li> <li>• Worked on technologies like Zigbee, GPS, Bluetooth, RF, IR, etc.</li> <li>• Single Layer PCB designing basics.</li> </ul> <p style="text-align: right;">June 2013</p>
	<b>Communication System in Indian Railways</b> <ul style="list-style-type: none"> <li>• Studied the existing communication system of Indian Railways.</li> <li>• Also studied Passenger Information system, which includes IVRS, Auto Announcement System, Coach Guidance System, and Master-Slave Clock.</li> </ul>
Activities and Achievements	<ul style="list-style-type: none"> <li>• Feb 2016, won First Prize in Bhopal Vigyan Mela-2016 (organised by MPCST) for making “Wireless Switch”.</li> <li>• Feb 2015, won Second Prize in Savishkar-2015, held at MANIT, for making “Internet of Things based Security System”.</li> <li>• Scored 99.2%ile in GATE 2014, ECE stream (total students: 216367).</li> <li>• Mar 2013, participated in technical paper presentation competition (Topic: Preventing rural migration by employment generation) held under PEHAL 2013 at State Museum, Bhopal.</li> <li>• Oct 2012, Won 1st prize in CIRCUITOUS (circuit designing competition) in Technosearch 2012, held at MANIT.</li> <li>• 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.</li> </ul>