

Harsimar Singh

3rd year B. Tech, Technology Enthusiast
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| DEVELOPER | CURIOUS | LEARNER |

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EXPERIENCE

Hyperworks Imaging Pvt Ltd , Bangalore
App Developer Intern-May 2016 - July 2016

Google Developers Group , NIT Surat
Executive Member-Aug 2016 - Present

DRISHTI , NIT Surat
Executive Member-DEC 2015 - JAN 2017
(Technical Club of NIT Surat)

OBJECTIVE

To intern at an organization where I can contribute through my skills and passion, and learn on implementing them into real world scenario from the brightest minds in the vicinity.

EDUCATION

National Institute of Technology, Surat — B.Tech
Electronics and Communication Engineering -8.25/10 CGPA
2015 - 2019

All India Higher Secondary Examination — CBSE-91.8 %
2014-2015

All India Senior Secondary Examination — CBSE-10 CGPA
2012-2013

SKILLS

C,	★ ★ ★ ☆ ☆
C++,	★ ★ ★ ★ ☆
Java,	★ ★ ★ ☆ ☆
Android App Development,	★ ★ ★ ★ ☆
Firebase Google,	★ ★ ★ ☆ ☆
Arduino,	★ ★ ★ ☆ ☆
Avr,	★ ★ ★ ★ ☆

PROJECTS

CheckoutWiz-App(Tensorflow & Caffe2) — Hyperworks Imaging

This App is intended to enhance checkout systems in supermarkets. It uses proprietary Machine learning algorithms to identify and classify fresh produce in real time. This App can be integrated into existing store checkout systems via multiple methods like ADB, LAN or through serial communication.

The App has variants one uses Tensorflow and the other uses Caffe2. (Tensorflow and Caffe2 are open-source software library provided by Google and Facebook respectively)

CircleDetector-App(OpenCV) — Hyperworks Imaging

This App can detect circular shapes with great precision using OpenCV.

PlacementFeed Android App — Self Initiative

****Under Development**

An android App that can provide the Placement Feed of our college directly on our Mobile.

Image Processor Android App — Under Selection process of Hyperworks Imaging, Bangalore

An Android App which can extract image tags from captured images and store it on cloud along with the location where it was taken.

Uses powerful Clarifai API for image processing.

Virtual Orchestra — Under Drishti Winter Of AVR, NIT Surat

An image processing project to implement a software that responds to user's actions as in Orchestra.

DTMF Controlled Mobile Bot — EC Mini-Project 2015-2016

Controlling a differential drive bot from anywhere using a mobile phone.

MyClassroom — Self Initiative

****Under Development**

An android app that can provide all the necessary information about your branch.

Advanced Line Follower — *Drishti major Project, NIT Surat*

Line follower using line interpolation technique.

Capacitive Sensing AVR— *Converted Arduino Code to AVR*

Translated the arduino code of arduino based capacitive sensing into avr.

Self Balancing Bot — *Side Project*

The bot that self balances itself.

Gesture Controlled Bot — *EC Mini-project 2016-2017*

Bot that can be controlled by hand gesture.

ACHIEVEMENTS

2nd Prize — *Line Follower Competition*

Line following competition organised by Drishti, NIT surat.

3rd Prize — *Dirt Rider Follower Competition*

Bot race on uneven level ground

Selected for Robocon Team, NIT Surat

Represented Dehradun Region in 19th National Children Science Congress held at Jaipur 2011