



# HRIDAY AGGARWAL

INTERN-Software Developer

Robotics | Internet Of Things | Web Development

## My Contact



## Skills

- Programming Languages
  - Python
  - C++
  - C
- HTML
- CSS
- Javascript
- MYSQL
- Robot Operating System(ROS)
- Computer Vision(OPENCV)
- Flutter Development
- Arduino Development
- Docker
- MongoDB

## Achievements

2022

May-**3rd position** - **Plan2Hack** (BVPCOE)

Sept-**2nd position** - **MakelItHappen** (GTBIT)

**3rd position** - **Erudite** (IGDTUW)

Oct-**1st position** - **Urbanize Away**(Hackerearth)

Nov -**1st Position** - **Ideathon**(MAIT)

## Education Background

- Maharaja Agrasen Institute of Technology  
*Bachelors of Technology in Computer science and Technology*  
Currently Pursuing (2021-25)
- Gd Goenka Public School  
*Senior Secondary Education*  
Completed in 2021

## Projects

### Cheque-Processing Algorithm Computer Vision

- Worked in information extraction from scanned cheques using COMPUTER VISION and TESSERACT-OCR
- Performed signature verification using SKIIMAGE-SSIM
- Maintained records using Python Data Handling

🔗 <https://github.com/Hriday31/cheque-processing>

### Line-Follower Bot Simulation ROS | Gazebo | Computer Vision

- Worked on Centroid detection on a video feed received from a simulation bot for line following
- Developed a PID algorithm for smooth curve tracing
- Simulated line following robot using GAZEBO & ROS

🔗 [https://github.com/Hriday31/line\\_follower](https://github.com/Hriday31/line_follower)  
<https://youtu.be/DiDlVM7xrM4>

### Laboratory Automation Server Docker | Arduino | IOT | MongoDB | Flask

- Developed a Docker Cluster to serve Attendance recording and Hosting a Flask-MongoDB server on Local Network
- Currently developing an algorithm to control appliances in the lab based on live Person count through a camera using Computer Vision

🔗 <https://github.com/atom-robotics-lab/labserver>

### Alexa-Based Home Automation Amazon SDK | Arduino | IOT

- Developed a smart solution to control appliances through Alexa based devices and switches
- Used Alexa Software Development Kit

🔗 <https://github.com/Hriday31/alexa-control>  
[https://youtu.be/oOEakz\\_8A5s](https://youtu.be/oOEakz_8A5s)

### Hollistic Traffic Management Computer Vision | Arduino

- Worked on traffic signal management based on live camera feeds at busy junctions using Computer Vision
- Developed an Arduino based device to regulate traffic signal time=ors based on live sensor data

🔗 <https://github.com/Hriday31/HALT>

### WeReform Waste Upcycling Web Portal Web Devolpment

- Developed an onw step solution for waste sale & purchase
- Source of Raw material for small cottage based industries

🔗 <https://wereform.github.io/>