

# Ayush Jain

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## EDUCATION

### CUPERTINO HIGH SCHOOL

Expected June 2017 | Cupertino, CA

#### COURSEWORK

AP Physics C  
AP Calculus BC  
AP Computer Science  
AP Statistics  
AP Chemistry  
AP Spanish

#### CONCURRENT ENROLLMENT

Calculus D

## SKILLS

### PROGRAMMING

Languages:

Python • Java • Octave/Matlab  
Javascript • C++ • Shell • HTML/CSS

Libraries & Frameworks

OpenCV • Tensorflow • NodeJS

React Native • Firebase

Tools

Unity • Maya • Photoshop • Illustrator

Familiar:

iOS • Android

## PROJECTS

### AR-DRONE

An autonomous indoor drone navigation program using the Parrot AR Drone. It uses various computer vision algorithms to understand its surroundings.

### SCRIBE

HackingEDU

An optical character recognition program for helping students study from their textbooks. Using Google's Tesseract for OCR and a neural word embedding called word2vec in order to convert pictures from a textbook page into practice quiz questions.

### BUTLER

Los Altos Hacks

An intelligent slackbot for managing teams and projects. Butler uses a natural language processing engine to parse intents and manage github and slack organizations.

## EXPERIENCE

### DRONES-DASH | CHIEF TECHNICAL OFFICER + CO-FOUNDER

July 2016 – Present | Menlo Park, CA

- Co-Founded the drone delivery startup with Shivum Agarwal, John Gotcher and Chase Traficanti
- Developed computer vision and machine learning solutions in order to authenticate users during delivery
- Leading core product development to develop coordinated drone network and client-side app

### TECHLAB EDUCATION | INTERN

May 2015 – Aug 2015 | Saratoga, CA

- Led various programming classes teaching teens and children how to code(Web Development, IOT, Python)
- Collaborated with other interns to redesign the Techlab website and work on an aquaponics system.

### CHS ROBOTICS | SOFTWARE CAPTAIN

Oct 2013 – June 2015 | Cupertino, CA

- Managed team 7128's software team which included motivating and mentoring freshman and sophomore teammates.
- Oversaw autonomous and drive code and maximized team efficiency within a constrained time period.

## RESEARCH

### DEXTO | ELECTROMYOGRAPHY RESEARCH

July 2015 – Dec 2015 | Cupertino, CA

Worked with Rohan Iyer and Stuart Rucker to develop a prosthetic modeling and positioning software. Using the bayesian classification algorithm, low pass filters and a constant pass standard deviation formula, we were able to interpret real time electromyographic data into gesture events.

### ISTITCH | COMPUTER VISION + DIABETES RESEARCH

June 2015 – August 2015 | Saratoga, CA

Worked with Yash Vaishnav, an M.D. Candidate, and Stuart Rucker to develop a image processing program to classify patients with diabetes from videos of their corneal sub-basal nerve plexus. By using OpenCV's image stitching tools and creating vector trees of the detected nerves, statistics such as fiber tortuosity and branch density could be calculated and used to classify patients accordingly.

## PATENTS

### DRONES-DASH AFFILIATED

MODULAR DRONE PAYLOADS | Patent No. #####

BINARY FLASH TARGETING SYSTEM | Patent No. #####

## HONORS & AWARDS

2016	Completed Level 5	Google Foobar Challenge (Recruitment)
2016	1st Place	HP Code Wars
2016	Social Network Award	Make Hacks
2015	Myo + Autodesk Award	AngelHack Silicon Valley