

# CHIRAYU JAIN

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## Education

### Northeastern University

Bachelor of Science in Electrical Engineering

Boston, MA

September 2017 - Present

- GPA - 3.657
- Coursework - Differential Equations, Fundamentals of Networks, Circuits and Signals, Embedded Design

### Bergen County Academies

Academy of Engineering and Design Technology

Hackensack, NJ

September 2013 - June 2017

- Technology Students Association TEAMS 2016 - 1st place nationally
- E-Nable 3D Printing Club - President
- South Asian Club - President

## Experience

### First Year Engineering Learning Center

Mentor

Boston, MA

January 2018 - Present

- Host 1-on-1 lessons to teach students Solidworks, Arduino, Matlab, and C++
- Manage all 3D model files for Cornerstone of Engineering course students

### Cooper Union Summer STEM

Teaching Assistant

New York, NY

July 2018 - August 2018

- Guided 16 ESL high school students through the engineering design process to build kinetic sculptures
- Created and taught lessons on Arduino, CAD, 3D printing, laser cutting, and technical presentations

### Fat Cat Fab Lab

Fabrication Intern

New York, NY

February 2017 - August 2018

- Created modification for the Ultimaker 2+ printer which enabled it to print while being raised up a railing
- Trained lab members on printer's enhanced capabilities and how to sustain maintenance of the equipment

### Paintants Corporation

3D Printing Engineer

New York, NY

July 2016 - August 2018

- Researched, designed and built a 1m x 1m x .2m 3D printer to create art pieces using silicon based plastics
- Constructed a CMYK 3D printer head for manual printing in full color and gradients

### NASA's Space Apps Next Gen

Lead Hackathon Organizer

New York, NY

January 2015 - July 2017

- Partnered with sponsors, judges, and media groups to organize a hackathon for 150 high school students globally
- Managed hardware and electronics for public use at the event, as well as mentored students in Arduino and Java coding

### hackBCA

Executive Board Member

Hackensack, NJ

September 2014 - June 2017

- Connected with over 40 major computer science companies for sponsorships, totalling over \$40k in funding
- Organized and operated electronics, 3D printers, and laser cutter for over 500 students during the events

## Projects

### Self Correcting 3D Printer

September 2016 - June 2017

- Researched and designed a printed circuit board for a rotary encoder chip to be mounted on a stepper motor
- Designed and programmed a flexible closed loop 3D printing system to allow detection and correction of motor failures

### Nintendo Arcade Game Controller

September 2017 - June 2018

- Developed an Arduino based arcade controller compatible with the Nintendo Wii and Gamecube, or wirelessly with a PC
- Designed the controller around ergonomics to enable people with carpal tunnel to play video games

## Skills

**Technical Skills** - AutoDesk Inventor, AutoCad, SolidWorks, Fusion 360, OrCAD, PSpice, MATLAB, C++, Arduino, Java, UNIX, HTML, CSS, G-Code, 3D Printing, Laser Cutting, CNC, CAM, Oscilloscope, Soldering

**Languages** - Hindi - Fluent, Mandarin - Conversational