

# CHIRAYU JAIN

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## Education

**Northeastern University**  
College of Engineering

September 2017 - Present

**Bergen County Academies Class of 2017**  
Academy of Engineering Design Technology

September 2013 - June 2017

## Projects/Experience

**First Year Learning Engineering Center - Mentor**

January 2018 - Present

- Host 1 on 1 seminars to teach students Solidworks, Arduino, and Matlab
- Manage all 3D printing files for Cornerstone of Engineering course students

**Fat Cat Fab Lab - Fabrication Intern**

February 2017 - Present

- Created a modification for the Ultimaker 2+ printer that enabled it print while moving up on a wall
- Trained lab members on the printer's enhanced capabilities and to sustain maintenance of the equipment
- Assisted local startups with generating comprehensive CAD designs

**Paintants Corporation - 3D Printing Engineer**

July 2016 - Present

- Conducted equipment research, designed, and built a 1x1m 3D printer to create art pieces using silicon based plastics
- Constructed a CMYK 3D printer head for printing in full color and gradients

**NASA's Space Apps Next Gen - Hackathon Organizer**

January 2015 - Present

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

**Self Healing 3D Printer - Senior Capstone Project**

September 2016 - June 2017

- Researched and designed a printed circuit board for a linear encoder chip
- Designed and programmed a flexible closed loop 3d printing system to allow detection of failures

**hackBCA - Executive Board Member**

September 2014 - June 2017

- Connected with major computer science companies for sponsorships, mentors, and judges
- Organized and managed hardware, electronics, and 3D printer hacking area for over 500 students

**BCA's Student Lighting Crew - Lead Student Lighting Operator**

October 2014 - June 2017

- Program auditorium lighting equipment for assemblies, concerts, theatre performances, and various events
- Troubleshoot, repaired, and maintained quality of lighting equipment for optimal performance

**Cooper Union Summer STEM - FSAE Race Car Design**

June 2015 - August 2015

- Researched and developed an improved manufacturing process for carbon fiber to strengthen car's nose cone
- Gave a group technical presentation regarding our research, challenges, and final results

## Skills

**Technical Skills** - AutoDesk Inventor, AutoCad, Solidworks, MATLAB, Arduino, Java, Python, HTML, CSS, Javascript, G-Code, Microsoft Office, 3D Printing, Laser Cutting, CNC.

**Languages** - Hindi- Fluent; Mandarin- Conversational

## Student Organizations

**E-Nable 3D Printing Club - President**

September 2015 - June 2017

- Partnered with E-NABLE, to improve design of and manufacture prosthetic arms using student built 3D printers
- Ran workshops to build prosthetics at Stevens Institute of Technology through NCSSS and at NJ Makers Day

**South Asian Club - President**

September 2016 - June 2017

- Organized events to promote cultural awareness and fundraise for Sahaita, a medical charity serving orphans of India
- Optimized fundraising events by minimizing expenses to raise \$xxx, largest amount in chapter history donated

**TSA TEAMS Competition - BCA Chapter Co-President**

September 2014 - July 2016

- 2015: "The Power Of Engineering" - *Top 10 National*
- 2016: "Tools of Innovation" - *1st Place National*