

CHIRAYU JAIN

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Education

Academy of Engineering Design Technology
Bergen County Academies Class of 2017

September 2013 - Present

Projects/Experience

Paintants Corporation - 3D Printing Engineer

July 2016 - Present

- Designed and built a 1m x 1m 3D printer to create art pieces using silicon based plastics
- Constructing a multi color blending 3D printing system to make custom art sculptures

Self Healing 3D Printer - Senior Capstone Project

September 2016 - Present

- Researching and designing a pcb board for a linear encoder chip
- Designing and programming a flexible closed loop 3d printing system

hackBCA - Executive Board Member

September 2014 - Present

- 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

NASA's Space Apps Next Gen - Main Organizer

January 2015 - Present

- Connected with sponsors, judges, and media groups, to run a hackathon for 150 high school students through Next Gen
- Supplied hardware and electronics for public use at the event, and mentored students in Arduino and Java coding

BCA's Student Lighting Crew - Lead Student Lighting Operator

October 2014 - Present

- Program auditorium lighting equipment for assemblies, concerts, theatre performances, and meetings
- Troubleshoot, repair, and maintain quality of lighting equipment for best performance
- Developed a 'Easy-to-use' educational tool for future members by mapping all lighting channels

Cooper Union Summer STEM - FSAE Racecar Design

June 2015 - August 2015

- Researched and developed an improved manufacturing process for carbon fiber
- Gave a technical presentation about research and results

Liberty Science Center - Tour Guide

June 2014 - August 2014

- Helped design and construct a Rube Goldberg Machine for display and hourly demonstrations
- In charge of teaching kids how to solve the Rubik's Cube at the Beyond Rubik's Cube Exhibit

Skills

Technical Skills - AutoDesk Inventor, Revit, AutoCad, Solidworks, Xcode, Arduino, Java, Objective C, HTML, CSS, Javascript, G-Code, Microsoft Office, 3D Printing, Laser Cutting, CNC.

Languages - Hindi- Fluent; Mandarin- Conversational

Student Organizations

3D Printing Club - President

September 2015 - Present

- Partnered with e-NABLE, a NPO, to improve 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
- Review 3D printers and parts for local companies to provide feedback about improvement ideas

South Asian Club - President

September 2016 - Present

- Organized events to fundraise for Sahaita a medical and education charity in India, and promote cultural awareness
- Our events have provided medical and educational funds for several orphans in India

TSA TEAMS Competition - BCA Chapter Co-President

September 2014 - July 2016

- Led a team to accomplish and showcase Tests of Engineering Aptitude, Mathematics, and Science on a STEM topic
- 2015: "The Power Of Engineering" - *Top 10 National*
- 2016: "Tools of Innovation" - *1st Place National*

Awards/Honors

National Honor Society - Member

September 2015 - Present

HackCooper - 1st Place

February 14, 2015

hackBCA II - Best Pebble App

March 28, 2015

HackRU - Best First Hack

October 11, 2014