Justin **Shetty**

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Education

University of Michigan	*Ann Arbor, MI*
B.S.E. IN COMPUTER SCIENCE	*Expected April 2020*
Bergen County Academies	*Hackensack, NJ*
ACADEMY FOR ENGINEERING AND DESIGN TECHNOLOGY	*June 2016*

Projects & Experience

Recon Industrial Controls Corporation — *Englewood, NJ*
SOFTWARE INTERN — *Sep. 2015 - Jun. 2016*
- Primarily focused on repackaging LabRecon software in newer versions of the WINE compatibility environment to work with latest versions of Mac OS.
- Developed software to run on the ESP8266 chip in order serve web pages and handle serial communication with LabRecon board.
- Utilized a tablet-hosted WiFi network as a means of interfacing with LabRecon experimenter chip.

Locating and Identifying Viable Asteroids (LIVA) — *Hackensack, NJ / Hiroshima, Japan*
GROUP PROJECT — *Apr. 2014 - Nov. 2014*
- Part of the NASA ICED initiative introduced by Dr. Charlie Camarda.
- Prototyped and built an instrument package with a custom printed circuit board and accompanying software to detect presence of water in asteroids.
- Collaborated with Kokutai-ji High School in Hiroshima, Japan with support from the Japanese Ministry of Education.

hackBCA Director of Logistics — *Hackensack, NJ*
HACKATHON — *Apr. 2015 - Apr. 2016*
- Member of Board of Directors for the third iteration of hackBCA, one of the nation's first high school hackathons and first high school hackathon to be included in the MLH hackathon season schedule.
- Managed the expenditure of $13,000 of resources and food for the hackathon, which drew in over 500 attendees.
- Handled the event schedule, venue arrangements, food distribution, staff communication, chaperone assignment, and other issues as they arose.

E-Camp Director — *Hackensack, NJ*
SUMMER CAMP — *Apr. 2013- Aug. 2015*
- Organized and ran E-Camp, an annual week-long program for the 30+ incoming freshman in the Bergen County Academies' engineering program.
- Along with three other directors, handled the organization of the camp which included determining the schedule of activities and purchasing $2800 of supplies in addition to traditional counselor duties.

Presentations

Super Science High School Convention — *Hiroshima, Japan*
- Presented collaborative work alongside Kokutai-ji High School students in front of over 1,500 individuals from across Japan at the Hiroshima International Conference Hall. — *Nov. 2014*

AIAA Young, Professional, Student, and Educator Conference — *Laurel, MD*
- Presented work on LIVA asteroid water detection sensor package before AIAA Region 1 members. — *Oct. 2015*

Skills

Java • Python • HTML/CSS • Arduino • Mathematica • TᴇX
Windows/Mac/Linux • Microsoft Office • Autodesk Inventor • Adobe Photoshop • Sony Vegas Pro
Laser cutting • 3D Printing • Waterjet Cutting • CNC Milling (Basic) • Lathing (Basic)

Leadership

hackBCA Director of Logistics (2015-16)
JSA Chapter Director of Political Activism (2014-15)
BCA 2016 Class Council Secretary (2014-15)

Coursework

Discrete Math, Dynamics & Vibrations, Differential Eq.
Multivar Calculus, AP Physics C, Adv. Electrical Engineering
MIT 6.00.1x Intro to Computer Science and Programming

Honors

Bergen County Academies Engineering Award (2016)
National Honor Society (2014-16)

Interests

Choral Singing, Korean Music/Film
Hackathons, Automotive Tuning
Photography, Strategy Games