

# Abhishek Gorti

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Interested in exploring opportunities to work in areas that are at intersection of computing, management and real life scenarios in the process of military service.

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## Skills

Frontend Web Development: HTML5/LESS, jQuery, D3.js,

Server Development: Python(Flask,CherryPy), MongoDB, AJAX

Electronics/Robotics: VEX Robotics, RobotC, Arduino, First Robotics

Game/UI Development: OpenGL 2.0+, Java(LibGDX), SFML

Leadership: Able to command a large group of people and also help them work towards a designated goal. **Demonstrative Experience:** Connecticut State Technology, High School Clubs, Sports Team Leaders

Problem Solving: Able to be put in a demanding situation and work with a team or alone to rapidly develop and enforce a solution.

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## Work

### United States Naval Academy / Midshipman 3/C, USN

June 2017 - Present, Annapolis, MD

As a Midshipman in the United States Navy, I am devoted to improving my person mentally, morally, and physically, as defined in the Naval Academy's Mission Statement. I am considered to be working full time as an active duty member of the military. I take part in Cyber Security Team, Mountaineering Club, and Midshipman Action Group (MAG). I study Cyber Warfare Operations and want to pursue a service selection of either Cryptologic Warfare, or Submarine Warfare.

### National Aeronautics and Space Administration at Goddard / Intern

May 2018 - Present, Greenbelt, MD

Develop numerous individual modules within the NASA-Goddard STEM Innovation Lab in which other followers and educators can use to brainstorm and "jumpstart" future development.

Worked under Neel Savani and Troy Cline.

Individual projects include developing: - Model, clean, and import 30+ 3 Dimensionally scanned models of characters to be inputted into a Virtual Reality application. - Interactive web application to display positions of the Parker Solar - 3 Dimensional Probe and Solar LED Array Orbiter which in can a fixed visualize orientation. live space weather data in an 8x8x8 RGB matrix. - An Application programming interface (API) which can pull live space weather data and output it into IoT devices such the Phillips Hue visual effect room lights.

### Connecticut Student Technology Association / President

April 2016 - April 2017, CT

As the President of an organization that spans over **thirty** schools across Connecticut, I am the driving force that assembles technology-education teachers and technology-interested students. In office, I manage all member organizations' membership, community service events, financial budgets, **five** other state officers, and all executive actions that directly affect over **six hundred** students.

### **Hamden High School Science Club / President**

June 2015 - June 2017, Hamden CT

As a president of the Hamden High School Science Club, I am able to keep other students interested in a science-based mindset. Our team of officers planned and executed various fundraisers totaling over **four thousand dollars**, invited guest speakers from a multitude of corporations and schools, engage in STEM-oriented projects such as drones and 3D printers, and prepare students for our main competition goal: various Science Olympiad scrimmages across the state.

### **Congresswoman Rosa DeLauro / Internship**

August 2016 - November 2016, New Haven CT

Handled casework and worked with constituents to solve issues as a public intern. Experienced with the use of Intranet Quorum software and office tasks.

### **Yale University: Scassellati Lab / Developer on an NSF Expedition on Social Interactions**

March 2016 - June 2017, New Haven CT

Developed various portions of the research project under direction of Chien-Ming Huang at the Social Robotics Lab at Yale University. Assigned work includes database design, API design and development, Robot Operating System (ROS) custom node creation.

### **Yale University Gerstein Lab / Lead Application Developer**

June 2015 - June 2017, New Haven CT

Developed a gene interpretation tool at the Gerstein Lab in the Bioinformatics and Biostatistics Department at Yale University: The position required me to have utmost amount of responsibility as I had to develop a fully fledged web application with another person. I kept myself pressed to a time schedule in order to complete certain aspects of the application by a reasonable date.

### **King's Academy / Tutor**

June 2013 - August 2014, Cheshire CT

Teacher and developer at a local school called King's Academy. This position allowed me to create my own 8 week course in the area of software development, electronics, and robotics and teach the course to younger kids. I was responsible for 5-10 students who relied on me for knowledge and guidance.

### **Hamden Student Technology Association / President**

August 2013 - June 2017, Hamden CT

President of my town's Student Technology Club. This position allows me to share an in-depth understanding of technology and the current world of computers. Every year I run the club which necessitates the operations from events, showcases, and the execution of meetings. Club membership was 15 students on average.

### **Hamden VEX Robotics / Captain**

August 2013 - June 2015, Hamden CT

I maintained a team of 5-10 students who worked under my command to build robots every year that satisfy the challenge stated by the VEX Robotics Competition. I pace our club to meet deadlines and reach set goals.

### **Connecticut Student Technology Association / Vice-President**

August 2015 - June 2016, CT

In addition to being the district President for the Technology Student Association, I was voted Vice-President of the state Technology Student Association. I design and implement new ideas which hundreds students across the entire state follow.

### **E.Nopi Eye Level / Tutor**

June 2013 - March 2014

I volunteered hundreds of hours teaching and testing many students across Southern Connecticut. This community experience allowed me to help other children learn the fundamentals in their elementary education before they actually attended higher institutions.

### **Sikorsky STEM Challenge Club / Participant**

September 2015 - June 2016

This invitation-only challenge provides high schools students with the opportunity to partner with an Engineering mentor from Sikorsky and solve an engineering design problem, applying the lessons of the classroom to the technical problems that are being faced in their mission. Achieved second place in the entire state.

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## **Education and Athletics**

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### **United States Naval Academy / Midshipman 3/C**

2017 - Present, Annapolis Maryland

Expected graduation in 2021.

Studying Cyber Warfare Operations/Ethics and Computer Sciences.

Cyber Security Team, Midshipman Action Group, Mountaineering Club

### **Hamden Public Schools / High School Diploma**

2004 - 2017, Hamden Connecticut

Expected graduation in 2017. Over 7 AP Courses in 3 years. Enrolled in music program for six years. Second Chair trumpet in Concert Band. First Chair bassist in Jazz Band.

Fluency in 3 languages: English, Spanish, Hindi

Varsity Swimming and Diving (3 Years), Junior Varsity Cross Country (2 Years)

#### **Independent**

Martial Arts in the Shaolin Kempo, American Kempo, and many styles of Japanese Karate (12 Years)

Nationally Competing Team (3 Years)

Point Fighting (8 Years)

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## **Awards**

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VEX Robotics awards: 2x 1st Place at the Connecticut TSA VEX Robotics Competition

Multiple Connecticut TSA Top 3 placing: Tech Bowl, Webmaster Challenge, Webmaster

National Technology Honor Society

National Honor Society

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## **Hobbies**

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### **Aviation**

Total of 47 hours in single engine, fixed wing aircraft, including cross country, night flying, and instrument.

Private Pilot's License in progress

### **Mountain Climbing and Hiking**

Climbing domestic mountains

Pikes Peak, Mt. Washington, White Mountains Trails, Appalachian Trails and Mountains

### **Auto Mechanics**

Adequate experience in auto mechanics and knowledge of their components. Experienced with repair, tuning, and

maintenance of components found in lawn equipment, motocross machinery, and simple

vehicles.

### **STEM Activities**

- Front End Web Development: Hypertext Markup Language (HTML5/Cascading Style Sheets (CSS)/CSS Preprocessor Less, jQuery, D3.js
- Full-Stack Application Development: Python (Flask, CherryPy), MongoDB, Asynchronous JavaScript and XML (AJAX) Game/UI/Visual Development: OpenGL 2.0+, Java (LibGDX), C++ SFML, Python OpenCV (Computer Vision such as eye tracking and facial recognition)
- Lower level logical code for targeted purposes in the school, workplace: C++, Python, Java
- Building intricate electrical and logical systems for application in homes, cars, robots, hobby aircraft. Skilled in various microcontroller technologies such as Raspberry Pi, Arduino, BeagleBoard, VEX Robotics, RobotC, First Robotics and their respective development suites.
- Creating full-stack web applications for public service, commission, or profit. Skilled in topics such as networking, database design, user interface/user experience creation, application program interface (API) use, and modern security practices.