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# Jacob Trock

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## Education

Staples High School      Graduating: 2020

My classes consisted of a variety of AP and Honors courses.

## Clubs and Activities

### Grades

**Young Politicians League** - Lead debate moderator. Discuss current controversial issues. (9-12)

**Junior Statesmen of America** - Member, debated with others on political issues. (10)

**Sikorsky STEM challenge** - Lead team programmer (C language on the Arduino platform) and electronic designer; challenge: control panel for a virtual helicopter. (11-12)

**Staples Coding Club** - Practice coding for competitions, learned Python and help teach coding. (11-12)

**Lockheed Martin Code Quest Competition** - Compete with over 30 high schools to solve coding challenges. (Team) (11-12)

**Green Club** - Environmental initiatives, fundraising, raising awareness through education. (11-12)

## Leadership

### Grades

**National Honor Society** - Collaborate with students to volunteer in community service projects. (12)

**Toquet Hall Teen Governing Board** - Member of the executive board and head of technology/repair of gaming equipment. Event planning and promotion. Advised hardware purchase and setup of equipment. (9-12)

**Circle of Friends**- Student liaison-responsible for organizing events and recruiting volunteers to interact with teens with special needs (gift-giving, pancake breakfast, sports activity). (9-12)

**Young Politicians League** - Vice President - Lead debate moderator. Discuss current issues. (10-12)

**Friends of Appalachia**- Perform construction projects for building homes in Appalachia for families in need. Fundraise for equipment, materials and travel. (11-12)

**Religious Action Center of Reform Judaism Leadership Program**- Washington, D.C. teen advocacy program for social justice. Focused on advocacy for gun violence prevention culminating in a lobby day on Capitol Hill. (10)

- Discussion groups to compose plea for gun violence prevention policies that Congress should support
- Met with Congressman Jim Himes to discuss these pressing issues

## Community Service

### Hours

**Person-to-Person food pantry** - Stock shelves, unpack produce, pack up goods for patrons (17 hours)

**Westport Public Library Makerspace** -Train and instruct kids with Lego Mindstorm robots, Arduino projects, 3D Printer maintenance (20 hours)

**Service League of Boys** - Student volunteer - Served our town through community projects. Setup and manage events for nonprofits, town festivals and maintenance for Wakeman Town Farm. (58 hours)

Community Service	Hours
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<b>Circle of Friends</b> - Student liaison - responsible for organizing events to interact with teens with special needs (gift-giving, pancake breakfast, sports activity).	(15 Hours)
<b>Westport Senior Center</b> - Computer tech support for seniors, administrative tasks, serve lunch	(44 hours)
<b>Harbor Watch/ Save the Sound</b> - Fish trawling: monitoring for invasives and sustainability of Long Island Sound. Environmental cleanups at local parks and beaches.	(18 hours)

Employment	Grades
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<b>Live XYZ</b> - NYC Tech Startup, computer science internship, paid position, 80 hours.	(12)
<b>Wilton Public Library</b> - Paid position as a resident instructor, 45 hours	(11)
• Taught 2-session video game development class with Unity Engine software	
• Taught Arduino micro controller class	
• Trained patrons how to use 3D printers, maintenance of equipment, Innovation Day trainer	
<b>HM Games Studio</b> - Developed online game, SCP Secret Laboratory	(10-11)
<b>Staples High School</b> - On-call 3D printer repair technician.	(9-11)

### Summer Programs

NYU Tandon School of Engineering - Machine Learning and AI- coding skills: Python	Senior
Northeastern University - Engineering and Design	Junior
Worcester Polytechnic Institute - Robotics	Junior
University of Massachusetts at Amherst - Introduction to Engineering	Sophomore

Honors and Achievements	Grades
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<b>National Honor Society</b> - Staples High School - Honor for scholarship, leadership, service, and character.	(12)
<b>Lockheed Martin Code Quest</b> - Coding competition, 2nd place, advanced level, Northeast Region.	(11)
<b>Sikorsky STEM challenge</b> - Team award, for 4th place in the state of Connecticut.	(11)
<b>Staples Cross-Country</b> - 4 years Cross-Country/Indoor/Outdoor Track	(9-12)
• S-pin award for Dedication to the Cross-Country Team	
<b>Staples High School schedule app</b> - Mobile app/webapp/browser extension (co-author)	(10)
<b>Science Olympiad Competition</b> ( <a href="https://goo.gl/F8Gqzm">https://goo.gl/F8Gqzm</a> )	
• Created fully-functioning robot without using a kit (individual)	(6)
• Water Quality Lab (team)	(6)
• Scrambler vehicle competition, 3rd place in the state of Connecticut	(8)
<b>First Lego League</b> - Award for best robot design, 2nd place for robot performance, qualified for States	
• Skills involved: building Lego Mindstorm robot, public speaking and teamwork.	(8)

### Hobbies and Recreational Sports

Server management, personal website development. Programming in JavaScript, HTML, CSS, C, C#, Java and Bash, Python, Processing 3, Processing 5.

Reading, welding sculpture and furniture, building electronics projects, hiking, rock climbing, cycling, running

Westport School of Music - drumming