

Alan Yeung

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Education

Georgia Institute of Technology

Atlanta, GA

Expected: May 2024

- Bachelor of Science in Aerospace Engineering
- **Minor:** Sustainable Cities
- **GPA:** 4.0
- **Academic Standing:** Junior
- **Honor Societies:**
 - Sigma Gamma Tau
- **Associations:**
 - American Institute of Aeronautics & Astronautics (AIAA)
- **Certifications:**
 - Fusion360 Certified User, First Aid, Mission Radio Operator, Communications Unit Leader
- Startup Exchange Marketing Project Manager
- YJSP Web Operations Manager

Sparta High School

Sparta, NJ

June 2020

- Valedictorian 1/280, AP Capstone Diploma, High School Diploma, GPA: 4.68/4.5
- *United States Presidential Scholar Award in Career and Technical Education (CTE)*
- Elks National Scholar, NJ Governor's School of Engineering & Technology alumni, Captain VEX Robotics, President NHS & Mu Alpha Theta, VP Rho Kappa, STEM Academy Engineering Strand

Skills

Data Analysis: Quantitative Experimental Analysis, Qualitative Content Analysis

Software: G-Suite, Microsoft Office, LATEX, Github, MatLab, Java, Fusion360, AutoCAD, Solidworks

Communication: Oral Presentation, Research Paper, Research Symposium, Marketing

Languages: French (Professional, NJ Seal of Biliteracy), Chinese (Heritage Speaker, Speak & Listen), English (Native)

Teamwork: YJSP structures team and web operations manager, SX marketing project manager, VEX robotics team captain

Music: Flute, Piano, Vocal

Research

Influence of Social and Political Parallels in *The Orville* – Sparta High School, Sparta, NJ

Sept 2019-May 2020

Lead Author

- Utilized content analytical methods to categorize political intensity of various episodes of *The Orville*
- Analyzed experimental results using a pre-episode and post-episode survey method for audience response
- Unpublished at this time due to lack of IRB at high school

Silica Gels for Atmospheric Water Harvesting – Rutgers University, New Brunswick, NJ

June 2019

Co-Lead Author

- Created molds to form varied patterns for silica gels on sand-blasted steel substrates
- Analyzed the ability of varied patterns to condense water vapor
- Published in Rutgers School of Engineering Journal and presented at IEEE MIT Undergraduate Research & Technology Conference

Projects

Greener JC

Feb 2021-Present

Intern

- Worked with non-profit Greener JC that works with the Jersey City Office of Sustainability
- Researched alternative materials for small businesses to transition away from single use plastics

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Leadership

United States Civil Air Patrol – New Jersey Wing May 2017-Present

Cadet Executive Officer (Present), Cadet Communications Officer (Present), Cadet Flight Commander, Rank: Cadet Major

- Certified as a Communications Unit Leader and Mission Radio Operator for emergency service missions
- Mentored and trained cadets in communications equipment and protocol
- Mentored and trained upwards of 25 cadets in drills and ceremonies, leadership, cybersecurity, and aerospace education
- Achievements: CAP Achievement Award, Disaster Relief Ribbon with Silver V, Unit Citation, Distinguished Graduate (CDTA), Honor Cadet (RCLS), NJ SAR Competition Champion

Policy Debate Team Sept 2016-June 2020

- Grew oral communications skills in high school policy debate team
- Worked in teams of two to debate topics ranging from US-China relations to Secondary Education to Foreign Arms Sales
- Specialized in debate theory and argument technique
- Won multiple awards: Don Rutch Theorist Award, Best Negative Team of Season, Best Affirmative Team of Season, Best Overall Team of Season, 3x Regional Tournament Champions

Startup Exchange Aug 2020-Present

Marketing Project Manager (Executive Team)

- Managed marketing campaigns for speaker and networking events and complete marketing timeline/projects
- Utilized software such as: Eventbrite, Mailchimp, Canva, G-Suite, Slack

Yellow Jacket Space Program Aug 2020-Present

Structure Team Flightfeed System Interfaces, Operations Team: Web Operations Manager

- Worked on designing and manufacturing a liquid fuel rocket with the goal of reaching the Karman Line
- Modeled interfaces to support rocket plumbing systems
- Supported operations with website management and improving logistical efficiency
- Utilized software such as: Solidworks, Microsoft Teams, Excel, Sharepoint, Squarespace, Clickup

FreshGA Sept 2020-Present

Finance Subcommittee, Admin Relations Subcommittee

- Cooperated and designed service projects on campus with FreshGA, a committee of the Student Government Association
- Communicated with university administration to improve campus sustainability
- Wrote Student Government Association bills for financing FreshGa planned events

HyperJackets Aug 2020-Present

Vehicle Dynamics Team, Aero Structures Team

- Researched and developed system such as: brakes, suspension, motor mounts, and aero structure integration
- Utilized software such as: Solidworks, Fusion360, Google G-Suite, Bluejeans, GrabCAD, Clickup, Slack

VEX Robotics Team Sept 2016-May 2020

Captain, Head Engineer, Main Driver, Secondary Documentarist & Programmer

- Delegated, communicated, and managed teams of up to 10 students to build robots that played in the annual competition season
- Worked with multiple machine shop tools: belt sander, drill, drill press, bandsaw
- Reached top 2% in the world out of over 20,000 teams and won multiple awards: Design, Innovate, Tournament Champion, Tournament Finalist, Create, Build, Judges
- Utilized software: C++, Github

Work Experience

US Soccer Federation – New Jersey Aug 2018-Present

Certified Competitive Youth Soccer Referee

- Directed competitive youth soccer games to maintain safety and rules