

Education

Georgia Institute of Technology, Class of 2024, Aerospace Engineering, 4.0 GPA

Maynard Jackson High School, Class of 2020, International Baccalaureate Diploma
Valedictorian, STAR Student (Highest SAT), Georgia Scholar, 4.54 GPA

Activities and Experience

Georgia Tech Yellow Jacket Space Program, Fall 2020 - Present

Lead of the flight feed system propulsion team designing, building, testing, and preparing to launching a low-altitude rocket which is a test bed for our fullscale space shot vehicle.

Contributed extensively to developing the flight feed system including the Plumbing and Instrumentation Diagram (P&ID), component specs, flow calculators, and Composite Overwrapped Pressure Vessel (COPV) sizing calculator. Built everything from plumbing to component mounting. Test Responsible Engineer for water flows, cryogenic tests, and static fires. Developed Test Readiness Reviews, procedures, and led test operations. Extensive integration between systems including avionics, structures, and ground support equipment.

Georgia Tech Grand Challenges Living Learning Community, Fall 2020

Worked with a student team on creating an app that compiled all transportation modes into place and evaluating them based on their environmental friendliness.

Georgia Tech Research Institute Internship, Summer 2018

Developed prototype for motion-activated LED bike safety vest. Recognized as the first team to have a working prototype in the seven-year history of the program.

German Exchange Program, Fall 2018 and Summer 2019

Selected to represent school exchange with students in Nuremberg and Atlanta on project documenting immigration policy. Included interviewing Syrian refugees and humanitarian volunteers and presentation of final project in Nuremberg, Germany.

Day One Challenge, State of Georgia, May 2018

Led team of students to create sustainable delivery drone concept using 3D printing and on-demand delivery systems. Video won first place and team won second place overall, including a cash prize that funded tools for robotics team.

Maynard Jackson Robotics Club, 2016 - 2020

Served as team co-captain in 2019 and 2020. Team made it to the state robotics competition in 2019 and won second place in Peachtree District Competition, 2020.

Honors and Awards

GT Faculty Honors 2020 - 2021

Superintendent Scholar Athlete Award, 2020, Highest GPA of an athlete in Atlanta Public Schools

Senior Science Award, 2020

Senior Voted Most Likely to Solve a Global Problem, 2020

National Beta Club, 2017 - 2020

National Honors Society, 2018 - 2020

Future Problem Solving Club, 2016

1st place for team action plan on exoskeletons for workforce mentoring

Skills and Interests

- 3D Modeling – Solidworks
- Machining – Lathe, Mill, Waterjet
- Fluids Testing – TRRs, High Pressure, Cryogenics, Static Fire
- Plumbing – P&IDs
- Team Project Management
- Video Editing – Adobe Premiere
- Cinematography
- Drone/Quadcopters – Building, FPV Racing, Photography
- Engineering, Fluid Mechanics, Biology, Chemistry, Physics, Math