

Andrew Morell

U.S. Citizen

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EDUCATION

Georgia Institute of Technology

Anticipated Graduation: **Apr. 2022**

B.S. Candidate Aerospace Engineering

- **GPA: 4.0/4.0**
- School of Aerospace Engineering **BS/MS Honors Program**
- Study Abroad: University of Oxford

RESEARCH

Space Systems Design Laboratory (SSDL)

Jan. 2020-Present

Glenn Lightsey Research Group

Atlanta, GA

- Researching and developing CubeSat capabilities

Aerospace Systems Design Laboratory (ASDL)

Aug. 2019-Dec. 2019

Space Logistics – Optimization of The Lunar Gateway

Atlanta, GA

- Approached modeling with discrete event simulation in a python environment

EXPERIENCE

Northrop Grumman Corporation

May. 2020-Aug. 2020

Systems Engineering Intern

Washington D.C.

- Agile development with IBM DOORS preparing the systems requirement review for Cygnus Reboost
- Improved processes by automating them with MATLAB to support Commercial Resupply Services (CRS)

Aero Maker Space (AMS)

Apr. 2019-Present

Prototyping Instructor

Atlanta, GA

- Teach and supervise the safe use of shop equipment: laser cutters, 3D printers, machining, electronics
- Developed a standardized process with documents, checklists, and videos to streamline training on machines
- Provide creative and technical insight to others on personal and research projects

PROJECTS

HackGT 6

October 2019

First Place NSIN Drone Challenge

Atlanta, GA

- Conceptualized and built a 2-axis gimbal with LiDAR ranging and motion control
- Worked with a team under extreme time and project constraints

Georgia Tech Robojackets

Aug. 2018-Apr. 2019

3lb Battlebot Program

Atlanta, GA

- Designed and assembled 3lb combat robot in Autodesk Inventor
- Manufactured the robot with machining, 3D printing, waterjet, and laser cutting

LEADERSHIP

Executive Chair (AIAA – American Institute of Aeronautics and Astronautics)

Apr. 2019-Present

- Managing logistics for conferences, industry tours, info sessions, and professional development workshops

Student Mentor (ΣΓΤ Aerospace Engineering Honor Society)

Sep. 2019-Present

- Mentoring aerospace engineering undergraduates through tutoring and navigation of clubs, research, and life

Mountain Biking Instructor (ORGT - Outdoor Recreation at Georgia Tech)

Nov. 2019-Present

- Teaching the technique, safety, and enjoyment of mountain biking and planning outdoor trips

SKILLS

Software: 42 Spacecraft Simulation | STK | Solidworks | Siemens NX | Autodesk Inventor & AutoCAD
MATLAB | VPython | Mendeley | EndNote X9 | IBM Rational DOORS

Relevant Coursework: Aerodynamics | System Dynamics and Vibrations | Thermodynamics and Fluids | Deformable Bodies
Experimental Methods | Materials Science | Circuits and Electronics | Space Policy

Organizations: AIAA | ORGT | GT Climbing | Pep Band | SEDS

Honors: ΣΓΤ Aerospace Engineering Honor Society | TBP Engineering Honor Society

Instrumentation: Manual and CAM for mill and lathe | 3D printing | waterjet | laser cutter | soldering

Awards: BuildGT First Place New Hacker Team | Eagle Scout