Logan Bewley

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EDUCATION

Georgia Institute of Technology, Atlanta, GA   **December 2019**
- Master of Science Aerospace Engineering, BS/MS Honors Program
- Cumulative GPA: 3.77/4.0

Georgia Institute of Technology, Atlanta, GA   **May 2018**
- Bachelor of Science Aerospace Engineering, Highest Honors
- Cumulative GPA: 3.60/4.0

RELEVANT EXPERIENCE

Space Architecture Performance Analyst – The Aerospace Corporation   **June 2020-Present**
- Model, analyze, and visualize space system architectures, coverage/access to ground architectures, and system performance metrics.
- Lead both analysis and development teams to accomplish project goals by identifying customer needs, translating to development or analysis requirements, and coordinating tasking for team members.
- Develop satellite scheduling and dynamics simulation software as well data visualization tools.
- Enhance the performance of modeling tools and devise new techniques for answering customer needs.
- Support wide variety of colleagues and customers by bridging between analysts and developers.

Flight Dynamics Mission Analyst – OneWeb   **January 2020-March 2020**
- Served as flight dynamics support to satellite operators, including during launch and early operations as well as during nominal satellite operations.
- Assisted in coordination and implementation of satellite orbit raising campaigns.
- Developed code tools to interface with Systems Tool Kit (STK) facilitating analysis of satellite conjunctions, burn planning, and orbit determination results.
- Conducted modeling of satellite orbital parameters to better target desired constellation deployment and associated orbit raising strategies as well as helped validate orbit determination, modeling, and state propagation.

Master's Program Research   **August 2018 – December 2019**
- Created flight simulation in Goddard Space Flight Center open source 42 simulation to filter modeled LiDAR and optical object tracking sensor data, perform trajectory estimation, and maintain tracking of a deployed inflatable body in support of the Tethering and Ranging mission of the Georgia Institute of Technology (TARGIT).
- Provided dynamics analysis of TARGIT CubeSat and deployed inflatable in operational orbit to aid in attitude control design and successful mission execution.
- Created models of a space tether system to aid in related SSDL optical camera tracking research.
- Validated prior tether simulations and used results of work to inform mission and system design.

Georgia Institute of Technology USIP Research   **January 2017 – May 2018**
- Supported research in Georgia Tech Space Systems Design Lab, primarily on the NASA Undergraduate Student Instrument Project to develop TARGIT LiDAR CubeSat.
- Served as team lead on the Electric Power System team heading design and prototyping of inhouse fabricated solar panels and battery pack.
- Was responsible for system development progress and reporting as well as communication to other team leads and NASA representatives at Conceptual and Preliminary Design Reviews.
- Created operations plans and power modeling code for orbit and panel configuration analysis.

SKILLS

Computer: MATLAB, Python, C/C++, Systems Tool Kit, GMAT, Cadence Allegro/Orcad, SolidWorks, Visual Basic for Applications, LabVIEW, Microsoft Word, Excel, PowerPoint

Languages: English (Native Language), Japanese (Advanced), French (Basic)

Communication: Excellent verbal/written communication skills. Written technical reports, and presented to customers, program directors, professors, peers. Ability to work with others and coordinate to solve problems. Strive to maintain and encourage good practices in code development, maintenance, and documentation.

ACTIVITIES/LEADERSHIP

Georgia Tech CubeSat EPS Subsystem Lead

Eagle Scout