

Victor Petitgenet

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

M.S. in Aerospace Engineering

Fall 2019 - Present

- Graduate Research Assistant at the Aerospace Systems Design Lab
- GPA: 4.0/4.0

B.S. in Aerospace Engineering (Class of 2019)

Fall 2015 - Spring 2019

- GPA: 3.83/4.0 (AE Honors Program, Dean's List)

EXPERIENCE

Aerion Supersonic - Systems Engineering

May 2020 - Present

Systems Engineering Intern

Reno, NV/Online

- Developed a long-term roadmap for the implementation of MBSE at Aerion
- Participated in requirements development and management for the AS2 aircraft

Saab Technologies - Urban Air Mobility CONOPS Evaluation

August 2019 - May 2020

ASDL - Graduate Research Assistant

Atlanta, GA

- Worked on creation of a parametric framework to assess various CONOPS for urban air mobility
- Identified relevant metrics and created a System-of-Systems analysis environment

Delta Global Services - Analytical Projects

June 2016 - August 2016

Pilot Training Services Intern

Atlanta, GA

- Created and implemented a scorecard to evaluate Pilot Training Service performance
- Worked on a supplier diversity initiative; categorized existing suppliers and identified opportunities to increase spend on diverse suppliers
- Performed data collection and processing in Microsoft Excel, presented work to DGS leadership

PROJECTS AND RESEARCH

NASA MSFC - Nuclear Thermal Propulsion (NTP) Design Space Exploration

Fall 2019 - Present

ASDL - Graduate Research Assistant

Atlanta, GA

- Developed and implemented a novel methodology for the coupled design space exploration of NTP systems in tandem with Georgia Tech's Nuclear Engineering Department
- Publishing conference paper to AIAA P&E (August 2020)

Airbus - "Single Thread" Component Design Grand Challenge

Winter 2015 - Summer 2017

ASDL - Undergrad. Research Assistant

Atlanta, GA

- Leveraged software solutions to improve information flow and reduce design cycle time and cost in the detailed design phase
- Use case: wing rib detailed design (paper published), demonstrated weight & time savings in design cycle

YELLOW JACKET SPACE PROGRAM

September 2017 - Spring 2019

Systems Engineering Team Member

Atlanta, GA

- Student led initiative to launch liquid fueled rocket carrying 10kg payload above 100km
- Created aerodynamic heating simulation allowing for 1st order skin temp estimation
- Performed uncertainty propagation allowing for quantification of rocket positional uncertainty
- Developed mission and vehicle requirement

SKILLS

Coursework

Bachelor's Degree: BS-AE degree coursework: Dynamics, Vibrations, Thermodynamics & Fluids, Aerodynamics, Vehicle Perf., Jet/Rocket Pro., Structures, Aeroelasticity, FEA, Electric Aircraft & eVTOL, Capstone Design Project - Interplanetary CubeSat Mission Design

Master's Degree: Advanced Design Methods, Aircraft Design, Aerospace Systems Engineering

Programming Languages: MATLAB, Python, Java, SysML

Software: SolidWorks, Simulink, CATIA, iSight, XFOIL, AVL, ANSYS, LabVIEW, Abaqus, FLOPS, Microsoft Office Suite, OpenVSP, Jama, STK, JMP

Spoken Languages: English (fluent), French (fluent), Spanish (conversational)

Pilot Training: Private Pilot License in progress