Name

Full Address • Phone Number • email address • /in/linkedinURL

U.S. CITIZEN

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, School of Aerospace Engineering **Atlanta, GA**
Bachelor of Science in Aerospace Engineering ***December 2018***
GPA: 3.56

WORK EXPERIENCE

Lockheed Martin Aeronautics Company *May – August 2018*

Manufacturing R&D Intern ***Marietta, GA***

- Worked within Manufacturing Technology to design, prototype, and implement both small and large scale improvements to the LM Marietta production line (F-35 center wing assembly and C-130 final assembly)
- Extensively utilized CATIA V5, the Arduino IDE suite, and 3D printing to develop multiple daily-use production aide tools designed to decrease cycle times and increase overall quality statistics
- Trained to introductory proficiency with GD&T standards ASME Y14.5M-1994 and ASME Y14.5-2009

Cessna Aircraft Company (Textron Aviation) *May – August 2017*

Process Engineering Intern ***Columbus, GA***

- Exposed to and led projects in a lean manufacturing environment with an emphasis on reducing process cycle times and final product inconsistencies, as well as capturing and responding to shop floor metrics
- Created a safety action item list in Excel by using higher-order techniques such as advanced cell conditionals and VBA. After review by management, this template became standard for all other Textron Aviation plants
- Led a team of 6 full-time staff in designing and implementing solutions for managing a composite propeller inventory system by introducing new methods to track material usage with Excel and standard barcode systems

RESEARCH

Georgia Tech Aerospace Systems Design Laboratory *January 2018– Present*

Models-Based Systems Engineering (MBSE) Undergraduate Researcher ***Atlanta, GA***

- Learned the fundamentals of systems engineering (specifically MBSE) hands on project related work and independent research as part of a collaborative team environment in ASDL
- Modelled a fictional space system (resupply rocket from 'The Martian') in MagicDraw using block definition, parametric, and 'DNA Signature' diagrams

Georgia Tech UAV Research Facility *September 2015 – July 2016*

Undergraduate Researcher ***Atlanta, GA***

- Developed a new watercraft propulsion system using pulse width modulation analysis tools, Arduino, and basic electronics techniques. Focused on enhancing built-in speed controls of a fishing boat trolling motor
- Wrote specific Arduino code to connect a system of gears and stepper motors to enable full control of a small watercraft from a standard transmitter or an autonomous mission control unit
- Saved 30% in total cost compared to commercially available radio control watercraft propulsion systems whilst retaining full functionality

SKILLS / ON CAMPUS

Software

- Microsoft Excel (Light VBA usage)
- SOLIDWORKS Modeling/Drawing/Assembly
- MATLAB/Simulink with control theory
- MagicDraw and associated SysML plugins

Hardware

- Arduino based mechatronics

On Campus Involvement

- **GT Student Government** - *AE School Representative 2017-2018*
- **Sigma Gamma Tau (AE Honors Society)** – *Secretary*
- **Georgia Tech AIAA** - *Membership Chair*
- **Georgia Tech Invention Studio** - *Prototyping Instructor*
- **Georgia Tech RHA** - *C.S. Apartments Hall Council President*
- **Georgia Tech Undergraduate Research Ambassadors**