

Thomas Shih

Email: thomasshih@cmail.carleton.ca

Cell Phone: 613-265-9632

WORK EXPERIENCE:

2019-Present **Solutions Analyst**, Bombardier Aerospace, Toronto, Ontario

- Created, maintained, and supported internal parts/operator information dashboard for sales division to use, providing full up to date analytics to assist in generating more sales
 - Front-end web development (HTML5/CSS/JavaScript with focus on AWS S3, JQuery, Ajax)
 - Back-end data analysis (Python with focus on Pandas, AWS S3)
- Developed parts consumption model to estimate amount of parts consumed per aircraft using statistical modelling (Python with focus on Pandas)
- Set up and maintained monthly CRJ (Canadair Regional Jet) fleet status reports (Excel/PowerPoint/Python/SQL with focus on GeoPy and Plotly)
- Verified third party software for use in airplane cockpit (Fortran/Python)

2018 **Software Engineering internship**, VT iDirect, Ottawa, Ontario

- Developed internal testing standards for various types of data transfer protocols for OSI layer two and three over Satellite (C/C++ with focus on UDP and TCP protocols)
- Assisted in verifying the integrity of product software before they are released to the public through peer review (Git, Jira, Bit Bucket, Jenkins)
- Bug-fix embedded software (Bash, C/C++ with focus on Socket)
- Collaborated with team members of various engineering fields

2018-2019 **Teachers Assistant**, Carleton University, Ottawa, Ontario

- Perform administrative duties and efficiently prepare for tutorials independently
- Practice public and interpersonal speaking skills to efficiently convey and present information and technical knowledge

EDUCATION:

2016-Present **Bachelor of Engineering Aerospace – Aerospace Electronics, Minor in Business, Co-op**
Carleton University, Ottawa, Ontario

- Fourth year standing, 9.8 CGPA on a 12.0 scale, Dean's list
- Carleton University President's Scholars Award, David A. Golden Scholarship
- Expected graduation date: May 2022

EXTRA-CURRICULAR ACTIVITIES:

2016-2018 **Quadcopter Development Lead/Pilot**, Mechanical Team
Blackbird UAV, Ottawa, Ontario

- Design and develop mission ready vehicles for accomplishing modern day tasks by researching possibilities for a modular, autonomous platform capable of incorporating computer vision software and retrieval software
- Demonstrated effective communication and leadership skills to a technical audience by researching, presenting, and facilitating structured team meetings to discuss strengths and weaknesses of current and new ideas
- Utilized PTC Creo Parametric for rapid prototype deployment involving collaboration, design, and redesign of custom parts
- Ensured 3D printed parts were free from errors in dimensioning, and were physically compatible with other modules requested by the systems team
- Effectively solved mathematical problems using MATLAB, helping to drastically speed up development of prototypes by utilizing numerical methods