

# Thomas Shih

Email: [thomasshih@cmail.carleton.ca](mailto:thomasshih@cmail.carleton.ca)

## WORK EXPERIENCE:

2019-Present **Software Developer/Business 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)
  - Build, testing, and deployment (Azure DevOps environment)
- Developed parts consumption model to estimate amount of parts consumed per aircraft using statistical modeling (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 Engineer**, VT iDirect, Ottawa, Ontario

- Collaborated with team members of various engineering fields
- Developed internal testing standards for various types of data transfer protocols and ensure that all future tests are repeatable and reproducible (Bash)
- Develop toolbox to interface with intel ethernet sockets and provide commands during runtime (C/C++)

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: Unknown (due to recent events)

## EXTRA-CURRICULAR ACTIVITIES:

2019-2020 **Toronto Wildlife Center Nursery Volunteer**

- Hand feed orphaned wildlife (e.g. eastern grey and red squirrels, chipmunks)
- Prepare food, handle, and support full-time staff for raptors, reptiles, and mammals
- Learn about animal behavior and physiology

2018 **PEO 2018 Water Purification Challenge**, Second Place Winner, Ottawa, Ontario

- Applied cost/benefit analysis to solve for optimal low-cost solution to the water purity problem in developing countries

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
- Effectively solved mathematical problems using MATLAB, helping to drastically speed up development of prototypes by utilizing numerical methods