

# Thomas Watson

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## EDUCATION

### Dalhousie University

*Bachelor of Mechanical Engineering, Minor in Computer Science*

Halifax, NS

Sept. 2021 – Apr. 2027

## EXPERIENCE

### Cybertruck GA Equipment Engineering Intern

Sept 2025 – Present

*Tesla*

*Austin, TX*

- Led mechanical design, robotics, and PLC logic for two new seat structure assembly cells; sole designer/programmer of rejection assembly, saving hundreds of thousands annually in Cybertruck development lead time.
- Main contact for seat assembly cells; designed/implemented efficient robotic fittings, controls, and end effectors using Siemens NX, SolidWorks, and Catia.

### Mechanical Design Engineering Intern

May 2025 – Aug. 2025

*Lockheed Martin*

*Dartmouth, NS*

- Led topside design initiatives, implementing 9 new functional equipment placements based on antenna radio frequencies, thermal considerations and mechanical constraints.
- Led topside mechanical design assembly integration for confidential system as main point of contact for 4 vendors.
- Identified discrepancies and led the redevelopment of a company-wide new line-of-sight analysis procedure using SolidWorks for the CSC program, trained employees, and improved process accuracy by over 8%.

### Computational Fluid Dynamics (CFD) Intern

May 2024 – Aug. 2024

*Lockheed Martin*

*Dartmouth, NS*

- Developed and validated a calculation method for engine exhaust mass flow rates/temperatures, worked with vendors to develop proper idle engine power distribution for RANS/LES simulations (thermal and aerodynamic).
- Worked closely with the Electromagnetic team validating near and far field antenna coupling analyses.
- Developed, meshed, and analyzed CSC ship model iterations for CFD using ANSYS Fluent and SolidWorks.

### Aerospace Engineering and Logistics Intern

Jan. 2025 – Apr. 2025

*RTX (Pratt and Whitney)*

*Halifax, NS*

- Collaborated with PW800 production line and automated various procedures using VBA, Power BI and Python.
- Built 13 complex Visual Basic macros from scratch, cutting company data refresh time by 8 hours/week.

## PROJECTS/EXTRACURRICULAR LEADERSHIP

### Video Game Console System | Matlab/Arduino with 3D Printed Controller

May 2025

- Developed a front to back end 2-D video game system using an Arduino Uno (Analog/Digital Input) and Matlab, governed by RK4 differential equations. 3-D printed a custom designed ergonomic controller assembly.

### Quantitative Risk Management App | Dalhousie Investment Society (DALIS)

Sep. 2024 – April 2025

- Built a ground-up application that calculates individual group and society-wide YTD PNL's in Python using Pandas, Matplotlib, Tkinter and Bloomberg's Python API.
- Introduced applied mathematical hedging and decision making to the society. Developed Monte Carlo simulations and stock/industry correlation matrices using python (Matplotlib, Numpy and Pandas).

### Head of Governance and Trading | Dalhousie Blockchain Society

Dec. 2024 – Present

- Leading team governance initiatives, managing and presenting club votes on various L1/L2 Web 3.0 projects.
- Obtained an all expenses paid grant to attend Jupiter Exchange's annual conference in Istanbul, Turkey.

### Volunteer Experience

Dec 2020 – Present

- Dal Engineering vs Commerce Charity Hockey Game – Raising over \$60 000 for the Canadian Cancer Society.
- Summer youth hockey development camp coach.
- Romero house Saint John food shelter volunteer.

## TECHNICAL SKILLS

**Engineering:** NX, Catia, Python, SolidWorks, VBA, VLSI design, Simulink, AutoCAD, MATLAB, Java, C++

**Tools:** Tableau, Power BI, DOORS, SAP, Visual Basic, SQL, Confluence, Jira, Bluebeam, Git

**Simulation:** ANSYS Fluent, COMSOL Multiphysics, ShipEDF (3D Electromagnetic Modeling), OpenFOAM

**Relevant Courses:** Heat Transfer, Fluid Mechanics, Systems, Materials 1-3, FEA, Applied ODE's, Machine Design 1-2