ADYN MILES

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adynmiles.github.io/adynmiles

EDUCATION

Delft University of Technology

Master of Aerospace Engineering
September 2022 - June 2024 (Expected)
8.4/10 Average

University of Toronto

Bachelor of Aerospace Engineering
September 2017- April 2022
3.82/4.00 GPA
Thesis: Hybrid Magnetic and Impulsive Control for Earth-Observing Satellites

EXPERIENCE

University of Toronto Aerospace Team — May 2018 - Mar. 2022

Payload Chief Engineer and Systems Engineer

- Led the development of a hyperspectral camera onboard a nanosatellite for greenhouse gas emissions research.
- Developed architecture, requirements, and full verification plan.
- Led integrated testing campaign including vibrational and thermal testing.
- Developed software base for a ground station using GNURadio.
- Assembled a satellite for launch in a cleanroom.

Space Systems Design Capstone — Sep. 2021 - Dec. 2021

Chief Systems Engineer

- Led the systems design for a 1st-place winning asteroid mining concept presented to MDA Space.
- Developed full requirements and architecture.
- Performed thermal and link budget analysis on the design.

Canadian Space Agency — May 2021 - Aug. 2021

Software Development Intern

- Developed a ground simulator for the currently operational NEOSSat to diagnose issues and develop better software.
- Added critical payload functionality to the main program using a real time operating system.

Bombardier Aerospace — Aug. 2020 - Apr. 2021

Stability and Control Intern

- Developed tools to organize and use large drag performance datasets to better understand production quality trends.
- Used MATLAB-based simulations to ensure the aircraft could withstand uncontrolled thrust conditions.

RELEVANT COURSES

Space Systems Engineering

Space Optical Sensors

Spacecraft Structures Design

Microsatellite Engineering

Spacecraft Attitude Control

Planetary Sciences

SKILLS

LANGUAGES	(Experience)
English	(Native)
French	(5 years)
Dutch	(< 1 year)

SOFTWARE LANGUAGES	
Python	(6 years)
MATLAB	(5 years)
Embedded C/C++	(1 year)
VBA	(1 year)

TOOLS	
SolidWorks CAD	(2 years)
PyTorch	(3 years)
Arduino	(1 year)
Raspberry Pi	(1 year)