CARTER GREEN

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Ottawa, Ontario

EDUCATION

University of Ottawa September 2020 - Present
Master of Applied Science Electrical and Computer Engineering
Concentration in Applied Artificial Intelligence
Thesis: Apnea Detection with Unobtrusive Pressure Sensor Arrays

Royal Military College of Canada August 2016 - May 2020
Bachelor of Engineering, Electrical Engineering
Thesis: FMCW Synthetic Aperture Radar Imaging Platform

TECHNICAL SKILLS

Programming Languages: Python, Julia, MATLAB, C
Libraries: PyTorch, Keras, NumPy, scikit-learn, Flux.jl
Containers: Docker, k3s, ArgoCD

WORK EXPERIENCE

University of Ottawa January 2021 - December 2022
Teaching Assistant

- Delivering tutorials, leading and marking labs for ELG3155 - Introduction to Control Systems
- Creating and delivering tutorials, creating test solutions for ELG3125 - Signals and Systems
- Delivering tutorials and leading lab sessions in French for ELG3525 - Analyse de signaux et systmes

Canadian Armed Forces June 2016 - August 2020
Officer Cadet

- Completed Basic Military Officer Qualification, Second Official Language Training, and Aerospace Engineering Officer Preparatory Phase I as part of military training.
- Cadet Section Commander and Cadet Flight Leader commanding groups of 8-25 Officer Cadets. In charge of dress and deportment, discipline, accountability, and communication with Chain of Command.

PROJECTS

FMCW Synthetic Aperture Radar (SAR) Imaging Platform Sept 2019 - April 2020

- Designed and implemented a mobile platform to create a synthetic radar array
- Interfaced with Analog Devices DemoRad 24 GHz Radar Evaluation Board
- Implemented Focused SAR strip-map imaging in Python on a Raspberry Pi using NumPy

Pulse-Doppler Radar Processor Sept 2019 - December 2019

- Implemented Pulse-Doppler Radar Processor in MATLAB using Doppler processing, binary M-of-N integration, and range-Doppler disambiguation
- Given simulated ADC data, the processor determined range and speed of multiple simulated aircraft and land vehicles at at a maximum detectable range of 30 km and a maximum speed of Mach 2

LANGUAGES

English — Native
French — Government of Canada Public Service: CCB