LUKE ANTONYSHYN

Computer Science Graduate, M.Sc., B.A.Sc.

@ lukantonyshyn@gmail.com Toronto, Ontario, Canada

SUMMARY

Recent graduate from a research MSc in computer science with a focus on artificial intelligence and robotics. Proven track record working independently and cooperatively in academia, publishing one manuscript as a co-first author and completing two additional first author manuscripts. Possesses industry experience, working on a large multi-national team to develop software for complex embedded systems.

EDUCATION

MSc, Computer Science with Field of Study in Artificial Intelligence

Queen's University, Kingston, Ontario

Sep. 2020–Oct. 2022

- Research focus on deep reinforcement learning for control in robotics
- Performed literature reviews, identified directions for investigation, developed and evaluated novel algorithms for DRL in controls

B.A.Sc, Computer Engineering

Queen's University, Kingston, Ontario

Sep. 2015 – May 2020

PROJECTS AND PUBLICATIONS

Multiple Mobile Robot Task and Motion Planning: A Survey

ACM Surveys
DOI: https://doi.org/10.1145/3564696

Feb. 2023

Deep Model-Based Reinforcement Learning for Sample Efficient Predictive Control

MSc Thesis

Oct. 2022

Deep Multi-Agent Reinforcement Learning-Based Formation Control

Course Project
Project Link

Two Additional Manuscripts In The Process Of Being Published

EXPERIENCE

Teacher's Assistant

Queen's University

Sept. 2020–Aug. 2022 Kingston, Ontario, Canada

- Assisted in teaching responsibilities in classes on image processing and computer vision, and reinforcement learning.
- Responsibilities included grading tests, exams, and assignments, holding tutorials, responding to students queries about course material, and developing new assignments.

Embedded Systems Engineer Intern

Honeywell Aerospace

May 2018 – August 2019 Ottawa, Ontario, Canada

- Developed, maintained and documented system applications for handling central system control, built-in tests, system configuration, and physical environment monitoring and control for a satellite communications system for airplanes.
- Developed and maintained internal tools for sanity testing and customization of external configuration devices for the system.

Research Assistant

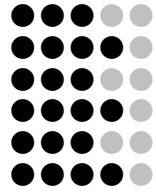
Sunnybrook Health Sciences Center

Jun. 2016 – August 2016 Toronto, Ontario, Canada

- Provided assistance with development of a teaching resource for Dr. Paul Binhammer, M.D.
- Classified, digitized, and standardized the format of a large number of cases, including common treatments and outcomes.

TECHNICAL SKILLS

C/C++
Python
Scikit-Learn
Tensorflow
Robot Operating System (ROS)
Linux



INTERESTS

- Reinforcement Learning and Deep Learning.
- Control systems and robotics.
- Multi-agent systems and learning.