

Lee Milburn

lmilburn@seas.upenn.edu | (401) 787-4443 | leemilburn.com

EDUCATION

University of Pennsylvania, School of Engineering and Applied Science, Philadelphia, PA *Expected, May 2025*
Master of Science in Engineering in Robotics

Northeastern University, College of Engineering, Boston, MA *May 2023*
Bachelor of Science in Computer Engineering and Computer Science *GPA: 3.79, Magna Cum Laude*
Awards: 1st in ECE Capstone Competition; Fung Leadership Award; PEAK: The Summit Award; Northeastern Achievement Award
Teaching Experience: Fundamentals of Computer Science 2, Teachers Assistant

RELEVANT EXPERIENCE

Scientific Systems, Woburn, MA

Autonomous Systems Co-op *July 2021 – July 2022*

- Developed algorithms for multi-target pursuit-evasion and implemented AI task-determining structures for SRM project
- Researched modeling search algorithms for optimizing multi-robot task allocation scheduled towards a time horizon

United Electronics Industries, Waltham, MA

Sales Engineer Co-Op *July – December 2020*

- Benchmark tested UEI's hardware to determine the maximum possible data throughput

BrainQ Technologies, Jerusalem, Israel

Product Intern *June – August 2019*

- Tested EMG physical therapy product and researched start up market for initiating Series B funding

RESEARCH

Vinum-EU, Genova, Italy

Guest Researcher at Italian Institute of Technology *Advisor: Dr. Claudio Semini*
July - December 2022

- Developed a navigation stack for a quadruped robot to autonomously navigate a vineyard in an unknown environment

TRASH, Boston, MA

Undergraduate Researcher at Northeastern University *Advisor: Dr. Taskin Padir*
June 2021 - April 2022

- Prototyped an autonomous UAV-UGV system to identify and pick up trash in unknown environments
- Won first prize in Northeastern's ECE Capstone Competition

ACE-PPE, Boston, MA

Undergraduate Researcher at Northeastern University *Advisor: Dr. Taskin Padir*
September 2020 - June 2021

- Designed and fabricated autonomous material PPE tests according to industry standards

PUBLICATIONS & CONFERENCES

First Author publication in [IEEE-ICARSC](#) 2023; First Author publication and presentation in [IRIM](#) 2022; Co-author publication in [IEEE-HST](#) 2022; Presented poster in DARS 2022; TRASH [manuscript](#) in progress

TECHNICAL SKILLS

Programming Languages: Python, C++, ROS, Java, Bash, SQL, LaTeX

Platforms/Tools: Docker, SolidWorks, 3D Printing, Auto-Cad, Simulink, Pspice, Git

Electrical: Digital Multimeter, Oscilloscope, Arduino, Protoboard Circuit Design, Soldering, Wiring