

LUKE MCGOVERN

SOFTWARE ENGINEER

✉ Luke.mcgovern18@gmail.com

☎ 802 373 7811

EDUCATION

UNIVERSITY OF VERMONT COLLEGE OF ENGINEERING AND MATHEMATICAL SCIENCES
 MAJOR: BACHELOR OF SCIENCE IN COMPUTER SCIENCE
 MINOR: JAPANESE LANGUAGE (Honors Society JNHS-CC)
 Burlington, VT
 2018 – 2023

WORK EXPERIENCE

2018 – current Donahue & Associates: Website management and administrative duties, part-time
 2020 – current Bordeaux Construction: Construction on commercial and residential properties, part-time

PROJECT

SOLO PROJECT Programmed autonomous navigation software for a virtual drone using LiDAR, Odometry, and GPS. Builds off of ArduPilot, an open-source autopilot system.
 My software allows an ArduPilot drone to navigate a maze **without the need for expensive companion computer hardware**
 Github Link: <https://github.com/McGovern7/ardupilot-nav-scripts>

LANGUAGES AND SKILLS

LANGUAGES Python, Swift, C, C++, JavaScript, React, MySQL, R, HTML, CSS

SKILLS Fullstack Development, Linux CLI, Git, ROS Robotics, IOS Dev

FAVORITE COMPUTER COURSES

WEB APP DEVELOPMENT Developed an IOS app which streamlines flight scheduling between pilots. Uses Apple's AirTag feature. 3 member semester long project. JSON data exchanged through a REST API

DATA PRIVACY Solo Project-based Learning: Added privacy mechanisms to create secure, and accurate coordinate data. Data plotted on world map with GeoPandas.

CYBERSECURITY PRINCIPLES Infiltrated my professor's (fake) online bank, using cryptographic hashing to secure computer networks. Newfound understanding of network threat vectors allows me to build more secure software.

SOFTWARE ENGINEERING Using Agile Development in a group of 4, coded a simulated monopoly game using PyGame. GitLab used for this semester long project.

FAVORITE ELECTIVES

JAPANESE Developed my Japanese skills throughout my time at UVM to use when I travel to Japan with my brother and our friend.

INTERESTS

DESKTOP BUILDING I enjoy building and upgrading my dual booted gaming desktop

SKIING I've gone skiing in New England, Montreal, Colorado, and even France!

GOLF I spend my summers golfing with my friends and family