LIAM M. MURPHY

liammurphy513@gmail.com   630-781-5530
LinkedIn: linkedin.com/in/liam-murphy-05244114b/   **GitHub:** github.com/lmurphy13
Website: liammurphy.me

EDUCATION

Marquette University, Milwaukee, WI
Master of Science, Computing   May 2021 - May 2022 expected
Concentration: Information Assurance & Cyber Defense

Bachelor of Science, Computer Science   August 2017 - May 2021
Minor: Spanish Language, Literature, and Culture

SKILLS

Programming Languages	Java, Python, C, Node.js, Scheme, ARM assembly, SQL
Software & Tools	Gherkin, LaTeX, Git, Subversion, VIM, Eclipse, Linux CLI, Oracle Database, IBM Rational DOORs, Azure DevOps, Review Board
General	Object-Oriented, Functional, and Structured Programming, Research
Foreign Language	Conversational in verbal Spanish, Proficient in written Spanish

EXPERIENCE

Astronautics Corporation of America, Oak Creek, WI   June 2021 - Present
Software Engineer I

· Worked within a Scrum team to develop avionics software in C within an embedded Linux environment according to customer specifications and government certification requirements
· Produced detailed product documentation and full software life-cycle data according to federal avionics regulations
· Performed rigorous product testing to ensure performance and to exceed safety standards according to DO-178C
· Gained experience with the ARINC 665 protocol and avionics software engineering practices

Northwestern Mutual, Milwaukee, WI   June 2020 - August 2020
Test Engineering Intern

· Translated business requirements into deliverables within a Scrum/Agile development environment
· Participated in Scrum ceremonies on two Agile teams
· Developed regression testing scripts using an internal automated testing framework
· Created on an onboarding application for new hires using React/Redux for Node.js

PROJECTS

Rent Always Paid   August 2020 - May 2021
Senior Design Project

· Designed, implemented, and tested a full-stack web application within an Scrum/Agile development environment
· Collaborated on a team with five other students in a year-long Senior Design course
· Integrated business and technical requirements into the product from the head of a local Milwaukee startup

Functional Project Language Interpreter   August 2019 - December 2019
Programming Languages Semester Project

· Incorporated functional programming concepts into the implementation of a small interpreter for a small functional language
· Gained familiarity in functional programming with Scheme/Racket

Embedded Xinu   January 2019 - May 2019
Operating Systems Semester Project

· Implemented integral sections of the Embedded Xinu kernel in C and 32-bit ARM assembly
· Gained experience with real multi-core operating system concepts on real multi-core hardware throughout the semester
· Continued learning and development through an undergraduate research program during the summer of 2019

ACTIVITIES

Shannon Rovers Irish Pipe Band, Chicago, IL