PATRICK COWHILL

------ · ------

---@email.com · http://www.LinkedIn.com/in/PatrickCowhill

EDUCATION

Georgia Institute of Technology *GPA: 4.00* Atlanta, GA
Master of Science in Electrical and Computer Engineering August 2021 - May 2024
University of Florida *GPA: 3.95* Gainesville, FL
Bachelor of Science in Physics August 2016 - December 2019
Bachelor of Science in Mathematics

RELEVANT EXPERIENCE

L3 Harris Technologies Melbourne, FL
Senior Associate Software Engineer January 2020 - Present
- Serve as the product owner for 3 actively deployed technologies, a technical lead assigning tasking for 9 engineers and scientists, and an inventor to 2 awarded patents.
- Drive development of EO and SAR software solutions on internal R&D and government defense contracts written in C++, Python, and MATLAB for Linux and Windows OS.
- Lead and instruct interns, perform regular debugging and software review, direct configuration management, version control, and high- and low-level technical briefings.
- Consistently apply knowledge of image and signal processing, photogrammetry, Fourier transforms, continuous integration, data structures, and geospatial coordinate systems.

University of Florida Physics Department Gainesville, FL
Undergraduate Research Assistant January 2018 - December 2019
- Utilize Matlab effectively to execute computer simulations and modeling of experimental data and design, schedule, and run experiments on biological systems.
- Carefully operate lab equipment, meticulously devise comprehensive laboratory protocols, and efficiently use computers to compose reliable programs.
- Collaborate with a small group of graduate students, undergraduate students, and principal investigator to advance a growing body of scientific research in biophysics.

University of Florida Honors Program Gainesville, FL
Guest Lecturer January 2018 - May 2018
- Independently studied Mathematica and instructed a 4000 level Mechanics 2 course of undergraduate students on solving complex physics problems by applying programming.

SKILLS AND ABILITIES

- Exhibit dual competency in Physics and Mathematics as well as problem-solving skills.
- Proficient in data analysis, machine learning, statistical modeling, and research.
- Experienced programmer in C/C++, Matlab, Python, Mathematica, R, and JavaScript.
- Qualified in using laboratory equipment and constructing circuits and electronics.

GENERAL EXPERIENCE

University of Florida Warrington College of Business Gainesville, FL
University Soloist December 2016 – December 2019
- Provide qualified performances of the National Anthem and Alma Mater for the Executive and Professional Online MBA Commencement Ceremonies.