Padraig Littlefield

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Education

Georgia Institute of Technology — Atlanta, Georgia
Bachelor of Science in Computer Engineering, GPA: 3.89 — *Aug. 2022 – May 2026*

Experience and Involvement

Software Engineering Intern — June 2022 - Aug. 2022, June 2023 - Aug 2023
402d Software Engineering Group - Robins AFB — *Warner Robins, GA*

- Developed a prototype mobile application using C#, HTML, and the Xamarin framework that enabled pilots to more efficiently complete take off/landing procedures
- Developed a prototype Hardware Fault Detection System. Designed using Multisim and implemented with integrated circuits.
- Trained a Computer Vision program to be used by a Raspberry Pi using Python and YOLOv5

Peer Instructor — Aug. 2023 – Present
The Hive Maker Space — *Atlanta, GA*

- Aid end users with using the equipment at the Hive
- Trained in Electronic Bench top equipment, Laser Cutting, 3D Printing,
- Assess and troubleshoot problems brought forward by end users
- Help to maintain upkeep of the maker space

Digital Design and Verification Team Member — Oct. 2023 – Present
Silicon Jackets — *Atlanta, GA*

- Student Organization dedicated to the design, verification, and fabrication of a RISC-V processor.
- Tasked with creating a RTL design for the Instruction Memory module for the processor using System Verilog
- Currently designing the a test bench for Fetch Module in System Verilog

Projects

Sensible Transfer | *Python, Git, pandas* — May 2023

- Developed an algorithm to determine which players a soccer team should buy to best improve their team
- Analysed the stats of 3k+ players and 100+ teams.
- Determined the importance of each stat for a given team, scored players based on this weighting.
- Correctly predicted the transfers of Declan Rice to Arsenal, and Jude Bellingham to Real Madrid

WREK Radio Mobile App | *Python, Git, Kivy,* — December 2022

- Developed a Mobile App to be used by the WREK Radio Station
- Queried information from an Icecast server to be used by the app
- Allowed end users to stream what was currently playing on air, as well as know the name of the song

Technical Skills

Languages: Python, System Verilog/ Verilog, Java, C, C#, C++, HTML/CSS
Hardware: Digital Logic Design, Soldering, Circuit Design, Oscilloscope
Developer Tools: Git, VS Code, Vim, Visual Studio, PyCharm, IntelliJ
Libraries: pandas, NumPy, Matplotlib

Relevant Courses

Courses: Programming for Hardware/Software Systems, Circuit Analysis, Digital Design Lab, Fundamentals of Digital Design, Data Structures and Algorithms, Object Oriented Programming