Jared Morrison

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EDUCATION

Southern New Hampshire University Manchester, NH
Bachelor of Science in Computer Science, GPA: 3.94 *(Expected May '24)*
Minor in Applied Mathematics

PROGRAMMING LANGUAGES

- Proficient: C, C++, Python
- Working Ability: Java, SQL
- Exposure to: Swift, Bash, JavaScript, C#

TECHNICAL SKILLS

- Embedded system hardware– MCU, ADC, UART, SPI, I2C
- STM32CubeIDE
- JetBrains IDEs
- Agile Scrum Methodology
- Visual Studio/Visual Studio Code
- GitHub/Git Bash
- Microsoft Office

WORK EXPERIENCE

Space Science Center, University of New Hampshire Durham, NH
Research Assistant, 3UCubed–IMAP Student Collaboration *(May '23–present)*
Embedded Systems Engineer

- NASA funded CubeSat project to design, build and launch a small satellite in collaboration with students and professors at University of New Hampshire, Howard University, and Sonoma State
- Developed and managed flight software for the spacecraft's on-board computer controlling all subsystems based on state in orbit
- Developed software for the spacecraft payload (instruments) microcontroller unit (MCU)–STM32
- Developed software for communication interface– UART, I2C, SPI to collect data from sensors
- Learned about embedded system hardware while debugging instruments software
- Designed and implemented a user interface to control and test the instruments

Wolak Leaning Center, Southern New Hampshire University Manchester, NH
Lead STEM Peer Educator *(Aug '22–present)*

- Develop new ideas to improve effectiveness of Peer Educators at SNHU
- Evaluate and assess other STEM Peer Educators
- Help students in various Computer Science courses during drop-in tutoring hours
- Tutor students one-on-one in hour long weekly sessions

Southern New Hampshire University Manchester, NH
Learning Fellow *(Aug '22–Dec '22)*

- Worked with both a computer science professor and 20+ students enrolled in Introduction to Programming to improve quality of learning during class
- Met with the professor and other learning fellows weekly to brainstorm and discuss possible strategies and adjustments to apply to course experiments that could better support student learning
- Interview students to better understand how the course could be improved from their perspective