

Keary D. Mobley, Jr.

499 Pineburr Ln, Stone Mountain, GA 30087 · 908-731-1814 · kmobley8@gatech.edu
(U.S. Citizen)

EDUCATION

- GEORGIA INSTITUTE OF TECHNOLOGY**, Atlanta, GA December 2016
- Bachelor of Science in Computer Engineering
- GEORGIA INSTITUTE OF TECHNOLOGY**, Atlanta, GA May 2023
- Candidate for Master of Science in Computer Science

EXPERIENCE

- Universal Avionics**, Duluth, GA February 2017 - July 2019
Software Engineer
- Wrote software in C++ for the development of Flight Management Systems.
 - Used Version Control (Perforce) to collaborate with a team of ~10 engineers.
 - Performed code reviews as well as wrote and maintained documentation for enterprise requirements.
 - Developed backend interfaces to receive data from ARINC-429 input (industry standard avionic data bus) and then process on GPU and CPU.
 - Debugged complex embedded systems, especially the intersection of hardware and software issues.
 - Updated web interface for loading binary executable files onto aircraft using Javascript, HTML, and CSS.

- Intel Corporation**, Fort Collins, CO May 2016 - June 2016
Logic and Validation Intern
- Worked for 3 months on a code base that simulated the power management unit for an SoC.
 - Maintained documentation, HAS (High Level Architecture Specification) and Test Plan Interfaces, to add new features to the code base.
 - Created test sequences in System Verilog to ensure proper functionality of device under tests (DUT).
 - Used Version Control (Git) to commit code to a large corporate codebase.

- Georgia Institute of Technology**, Atlanta, Ga May 2015 - December 2016
Undergraduate Teaching Assistant, Programming Hardware/Software Systems (ECE 2035)
- Tutored students in fundamental C programming concepts such as multi-file structure, memory allocation, garbage collection and pointers
 - Worked with Professors and other teaching assistants to make sure that projects were delivered and graded on time.

COURSEWORK

CS7637 Artificial Intelligence

- Developed Image Processing AI agent to solve Raven's Matrix Problems
- Covered concepts such as Generate and Test, Semantic Networks, Production Systems
- Documented results of various AI Agents created throughout the class

ECE4605 Advanced Internetworking

- Covered various network protocols from data link to application layer
- Developed projects to explain concepts such as TCP, IP, and MAC Protocols

SKILLS/INTERESTS

Hardware/Software: Microsoft Office Suite, Git, Perforce, AWS, Django, Bootstrap
Programming: C++, C, Python, C#, MATLAB, SQL, HTML, CSS, Javascript
Platforms: Microsoft Windows XP/7/8, Linux Ubuntu, Fedora, Mac OS X
Interests: Embedded Systems, Robotics, Music, Logic Pro X, Final Cut Pro
Languages: English, Korean (Intermediate), Mandarin Chinese (Intermediate)