Andrew Verzino

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing **Atlanta, Georgia**
Bachelor of Science in Computer Science *May 2025*
- Threads: Information Internetworks, Intelligence ***GPA: 4.00***

GEORGIA TECH LORRAINE (GTL), Study Abroad Program **Metz, France**
- Relevant Coursework: Multivariable Calculus, Literature and Medicine, and Elementary French *May - August 2022*

RELEVANT PROJECTS

EMBEDDED SYSTEM CYBER SECURITY – WYZE IP SECURITY CAMERA SUBTEAM **Atlanta, Georgia**
Georgia Tech Research Institute, Vertically Integrated Project (VIP) *August 2022 – Present*
- Implemented a multi-domain investigation through hardware reverse engineering, software/firmware reverse engineering, RF analysis, and static and dynamic testing through instrumentation.
- Utilized software tools like Ghidra to perform static analysis on the Wyze camera's memory and data structures.
- Executed RF fuzzing on the camera to monitor its application and discover vulnerabilities in the code.
- Recorded Over-The-Air Traffic and operated the SmartRF Packet Sniffer to deconstruct packets sent between the sensors and the camera.

HUNGRY VIPERS GAME – CLASS PROJECT **Atlanta, Georgia**
- Used ARM Mbed microcontroller to create a 2D Hungry Vipers game using C/C++. *Fall 2022*
- Implemented hash maps with open-chaining in C to efficiently store and utilize game items.

RELEVANT COURSEWORK

- **Digital System Design:** Introduction to digital computing principles and topics such as switch/gate design, datapath and memory elements, instruction set architecture (ISA), and assembly languages.
- **Intro to Object-Oriented Programming:** Introduction to techniques and methods of object-oriented programming such as encapsulation, inheritance, and polymorphism in the context of the Java programming language.
- **Programming for Hardware/Software Systems:** Creation of complex execution and storage mechanisms, based on MIPS ISA, for software design, including high-level programming languages such as C/C++ and operating systems.

PROFESSIONAL EXPERIENCE

REM DIRECTIONAL DRILLING **Boligee, Alabama**
Project Assistant *June - July 2020*
- Utilized AutoCAD to develop intricate mechanisms and parts for drilling machines.
- Operated HAAS milling equipment to manufacture steel for projects across the Southeast U.S.
- Maintained the productivity and efficiency of the factory floor through proper upkeep of equipment and machinery.

LEADERSHIP EXPERIENCE

BLOCKCHAIN CLUB @ GEORGIA TECH **Atlanta, Georgia**
General Meeting Coordinator *August 2022 - Present*
- Developed and established a weekly research and meeting agenda among committee members.
- Reviewed social media outlets and online forums to obtain relevant information surrounding the blockchain landscape.
- Utilized MS Office to create informative presentations for general assemblies.
- Promoted discussion and debate on various blockchain topics among members during general assemblies.

SKILLS AND INTERESTS

Technical: Python, C, C++, MIPS, Java, JavaScript, HTML, CSS, MS Office, Arduino, Mbed
Affiliations: Georgia Phi - Sigma Alpha Epsilon
Certifications: TestOutPC Pro
Interests: Tennis, Bass Guitar, Traveling, Physical Exercise