

Alexander L. Freel

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Education:	Bachelor of Science, Computer Engineering Rose-Hulman Institute of Technology, Terre Haute, IN	May 2027 GPA: 3.04
	Related Courses: DC Circuits, AC Circuits, Signal Processing, Embedded Systems, Digital Systems, Continuous Time Signals and Systems, Electronic Device Modeling, Object Oriented Software Development, Data Structures, Computer Architecture.	
Skills:	Software: Java, HTML, CSS, Python, C, Verilog Systems: Windows, Macintosh, Linux Hardware: MSP432 Microcontroller, Oscilloscope, Logic Analyzer	
Experience:	<i>Cybersecurity & Systems Intern — Edelman Financial Engines</i>	June – August 2025
	<ul style="list-style-type: none">Supported vulnerability management by identifying, assessing, and documenting system weaknesses, contributing to improved organizational security postureApplied and verified critical security updates and patches, including Samba configurations and Windows BitLocker encryption policies, ensuring compliance with best practicesCollaborated with IT team members to develop and implement system hardening strategies, enhancing infrastructure resilience and mitigating risks across enterprise systems	
	<i>Freelance Website Design</i>	June – August 2024
	<ul style="list-style-type: none">Built personal website to secure design contracts, using HTML, CSS, and JavaScriptDesigned responsive, user-friendly sites with intuitive interfaces and engaging visualsCreated animations and interactive effects to enhance user experience	
Projects:	<i>ECE Team Project</i>	2023 – 2025
	<ul style="list-style-type: none">Implemented photoresistor, line sensor, and IR sensor to learn how to automate a robot's movement on a trackHelped develop C code for the software that guided the robot sensors	
	<i>Coding Game from Scratch in Java: (Bonfire)</i>	
	<ul style="list-style-type: none">Coded enemy tracking movement, collisions, an automated scoring system, and hero movementUsed Refactoring and Interfaces in order to have code that reflects polymorphismLearned how to use try and catch blocks for exception handling in order to keep the program running even if there are errors	
	<i>Coding Game from Scratch in Python: (Worlds Hardest Game Replica)</i>	
	<ul style="list-style-type: none">Coded boundaries, Coins, player movement, obstacles, and interactionsPracticed using coding techniques and organization that optimized the game	
	<i>Virtual Machine</i>	
	<ul style="list-style-type: none">Took steps in learning the art of virtualizationCreated a virtual machine using VMware that allowed me to access a fully functional Linux Computer from my current windows computer	
	<i>Digital Systems Lab Projects</i>	
	<ul style="list-style-type: none">Programmed MSP432 microcontroller to interface with LCD, servo, and stepper motors.Developed RISC-V assembly programs for algorithms such as Fibonacci & array manipulationImplemented Butterworth and Chebyshev filters in MATLAB for signal analysis.Designed UART-based communication protocols for peripheral control	