Tyler Layton

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**Education**

**Rensselaer Polytechnic Institute         Class of 2025**

*Troy, NY | B.S. Computer Science | B.S. Computer and Systems Engineering | GPA: 3.66*

**Relevant Coursework:** Computer Science 1, Data Structures, Foundations of Computer Science, Eng Communications, Embedded Controls, Eng Processes, Intro to Algorithms, Circuits, Physics II, Robotics, Eng Probability, Signals & Systems, Principles of Software, Intro to AI, Intro to Electronics, Comp Architecture/Networks & Operating Systems

**Work Experience**

**Software Engineering Intern May 2024 – Aug 2024**

*L3Harris Clifton, NJ*

* Working in the Space and Airborne Systems department of L3Harris, I was tasked with designing an application from scratch that employees can use to create and manipulate Jenkins files. This application will reduce the amount of time it takes to write a Jenkins file by 80% saving the company both time and money
* Lead a small team of interns to develop both the back-end and front-end using Python and the library Tkinter, incorporating my own research and ideas into the project.
* Gained a lot more experience with python, how to develop a full application, and how to work on a team with other employees/interns.

**Project Lead Developer Sept 2023 – Dec 2023**

*Rensselaer Center for Open Source (RCOS) Troy, NY*

* Directed a small team of students to create an open-source game coded in python utilizing the library pygame
* Designed and implemented a user-friendly jumping mechanic within the game, enabling players to navigate across platforms
* This project helped me to understand how to lead a compact group of developers as well as improve upon my python coding skills

**Software Engineering Intern May 2023 – Aug 2023**

*L3Harris Clifton, NJ*

* During my first summer at L3Harris I was tasked with improving the user experience of an internally used application that would help employees interpret signals sent between two endpoints
* This “Message Analyzer” not only assisted employees, but also helped me to learn java and gain experience collaborating with other employees

**Frontend Engineer Sept 2022 – Dec 2022**

*Rensselaer Center for Open Source (RCOS) Troy, NY*

* Collaborated in a team to develop the user-interface of an open-source analog circuit simulator to help students understand the concepts of analog circuit design
* Implemented previous academic knowledge and work experience into the simulation to create a more accurate circuit design

**Technical Skills**

* **Languages/Frameworks**: Python, Java, C++, C, C#, HTML/CSS, RStudio, Git
* **Other Skills**: Microsoft Excel, PowerPoint, VS Code, GitHub, Matlabs, NX, LTspice, Eclipse, Windows Form Applications, Unity, Photoshop, Jenkins