

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