

TYLER CHAN

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EDUCATION	Rensselaer Polytechnic Institute, Troy, NY Bachelor of Science in Computer Systems Engineering & Computer Science Expected Graduation: December 2023 G.P.A. 3.7/4.0	
RELEVANT SUBJECTS	Rensselaer Center for Open Source (RCOS)	Summer & Spring 2022
	RCOS is a course and community of students who develop and contribute to open source projects.	
	Intro to Algorithms	Spring 2022
	Topics covered: Algorithm Analysis, Graph Algorithms, Greedy Algorithms, Dynamic Programming, and NP-Completeness. Utilized Dynamic Programming in an autocomplete feature in a personal project (Sekaidle Bot).	
SKILLS	Electric Circuits	Spring 2022
	Topics covered: first and second order circuit analysis and design, operational amplifiers, AC steady state analysis, s-plane representation, and Laplace Transform. For a design based lab, designed and assembled prototype haptics glove.	
	Programming Skills	Python, C, C++, Java, Lua, LaTeX
	Language Skills	Cantonese, Mandarin, Japanese
EXPERIENCE & PROJECTS	Software Skills	Git, CAD, Office Studio
	Overlord Bot (RCOS)	2022-Present
	Overlord is an open source Discord bot designed by RPI students for RCOS. Currently working on various subprojects for the bot: <ul style="list-style-type: none">- An improved polling system with a better UI.- A minigame similar to GraphWars.	
	OpenCircuits (RCOS)	Summer 2022
	OpenCircuits is an open source circuit design software designed and maintained by RPI students for RCOS. Improved the busing feature by programming the ability to select components instead individual ports to bus.	
	Sekaidle Bot	2022-Present
	Recreated the country guessing game, Worldle , that can be played in discord. To make up for the lack of an autocorrect feature, implemented a dynamic programming algorithm to find the most similar country names and suggest them to the user.	
	Ferris Bot	2021-Present
	Created a Discord bot with a polling system that updates live when users vote.	
	Microcontroller Projects	2021-Present
	Recreated the classic game of pong on an Arduino Nano with buttons and a tiny 128x32 OLED display on a breadboard: scratch-pong .	