Permanent Address: School Address:
9424 Byeforde Rd   100 Institute Road
Kensington, MD 20895   Worcester, MA 01609

Connell W. Paxton

cwpaxton@wpi.edu 301-547-5909
Personal website: https://tyromancy.art
Github: https://github.com/connellpaxton

Objective: Hardworking professional with experience in adapting to new environments and technologies seeking an internship or co-op that will allow me to apply and develop skills and education while contributing positively to the world around me and the people in it.

Education:

Worcester Polytechnic Institute (WPI)   May 2027
Bachelor of Science in Biomedical Engineering, Electrical and Computer Engineering
        Dean's List (2023-2024 A, B, C, & D Term)

Research:

Undergraduate Independent Study in Finite Volume Methods for Hyperbolic Problems   February 2024-May 2024
        Worcester, MA

Political Factionalism and Violence among Students in Fes, Morocco   May 2024 - June 2024
(currently ongoing)
        Fes, Morocco
-        Conducted interviews and supervised research in English and Darija (Moroccan Arabic)

Saint Anselm's Abbey School   June 2023

Work Experience:

Automation Engineer w/ Holy Trinity Catholic Church   June 2023 - August 2023
- Developed and documented framework for automating the data clean up of a recently digitized parishioner management system with tens of thousands of members.
- Leveraged C#, Python, and Selenium to save countless man hours while dealing with a database system that had no API provided for administrators.

Senate Page w/ United States Senate   July 2022 - August 2022, December 2022
- Transported legislation, roll call votes, and speeches to and from members of Congress, press offices, and the Senate floor.
- Met and exceeded workplace expectations despite several 18+ hour days during grueling marathon voting sessions.

IT Help Desk Technician w/ Caremetx, LLC   June 2019 - August 2021
- Performed dozens of remote software updates as the company transitioned to a remote work environment
- Maintained a catalog of several hundred active users and company devices
- Ensured the safe containment and destruction of private health Information as required by HIPAA.

Leadership:

Senior Patrol Leader, Troop 98 DC   November 2021 - November 2022
- Held the responsibility of planning troop meetings, campouts, and service trips, as well as running and holding veto power over the Patrol Leaders Council that guided the troop.

NCAA Division 3 Wrestling, WPI   August 2023 - present
- Minimum of 30 hours per week dedicated to team building, character development, and a rigorous schedule that requires discipline, flexibility, time management skills and physical conditioning

Skills:

Computer: I am an experienced Linux user with 7+ years of experience with C/C++ and x86 Assembly. I have used Python, Perl, and C# to automate scripting tasks for both work and my classes, and have made small projects in Rust, Zig, and a number of other languages. I am adept at adapting to new systems and languages. Current projects include Pléascach, a 3D GPU-accelerated graphics engine using Vulkan. Features include terrain tessellation, glTF model loading, support for Quake3 and Half-Life BSPs with lightmaps and visibility culling. I have written several web servers, sites, utilities from scratch. I have a wealth of experience with JavaScript, WebGPU and WebGL.

Awards and Recognition: Eagle Scout, National Latin Exam (Perfect Paper, Summa Cum Laude), Arabic Honor Society (2020-present), Saint Anselm's Abbey School Headmaster's Award & Classics Award. AP Scholar with Distinction