William Cull-Whitten

Computer Engineering Student

1-709-687-5291 | ccullwhitten@mun.ca | William Cull-Whitten | williamcullwhitten.ca | WilliamCW-Codes

EDUCATION

Memorial University | St. John's, NL   Sept 2022 – May 2028
Bachelor of Engineering Co-op Program, Computer Engineering
Scholarships: Harrison McCain Scholarship/Bursary, Transforming Our Horizons Entrance Scholarship, Dr. S.J. Carew Memorial Scholarship, PEGNL Bursary, NL Education Foundation Scholarship, Jubilee Knights of Columbus State Scholarship.

WORK EXPERIENCE

Community Centre Alliance (ccanl.ca) - Web Developer and Designer   Apr 2025 – Present
- Overseeing website maintenance, domain transfer/management and DNS configurations for efficient hosting workflows.
- Designing new promotional content to strengthen community engagement and reinforce a consistent brand identity.

Community Centre Alliance (ccanl.ca), Buckmaster's Circle Community Centre (bmcc.nf.ca), Virginia Park Community Centre
Web Development and Design Intern   Jan 2025 – Apr 2025
- Developed and launched modern websites across centres, improving UI/UX and reducing development costs by 75%.
- Rebranded organizations with new logos and business cards, modernizing public image and cutting design costs by 52%.
- Created promotional materials that increased community engagement by 35% and supported program visibility.
- Authored a seniors' support manual for New Horizons and provided daily IT support, reducing downtime by 73%.

BGC St. John's – STEM Mentor   Jan 2025- Apr 2025
- Facilitated weekly STEM workshops for 20+ youth, including Scratch coding, hands-on experiments, and competitions.
- Encouraged creative problem-solving and teamwork across diverse age groups by adapting activities to varying skill levels.

ENGINEERING TEAMS

MUNStar-1 CubeSat – Attitude Determination and Control System (ADCS) Team Member (munstar-1.com)   Jan 2024 - Present
- Designing and coding critical ADCS logic using PlantUML, supporting system architecture and integration of the satellite's core control system responsible for orientation and mission stability. Scheduled launch: 2026/2027.

MUN Concrete Toboggan – Mechanical and Project Team Member   Sept 2023 – Present
- Engineered and integrated Arduino-controlled LED headlights with 3D-printed housing, battery mount/housing, themed prizes, and a ring toss game using CAD.
- Developing a team website using Astro, TypeScript, and CSS to highlight competition information and progress updates.

PROJECTS

NexPad and NexClick   2025
- Designing a 9-key macro keyboard (NexPad) and USB mouse (NexClick) to operate seamlessly with any operating system.
- Assembled custom PCB layouts using KiCad and actively working on firmware development and housing design.

Portfolio Website (williamcullwhitten.ca)   2024
- Developed a personal portfolio using React, Node.js, and CSS to showcase projects and technical experience.

Tetriduino   2023
- Engineered a Tetris-style game using Python with Arduino-based controls and hardware integration.
- Presented the system architecture and code logic in a showcase, receiving the Outstanding Project of ENGI 1020 Award.

Platformer Game   2023
- Programmed a 2D platformer using a JavaScript game engine to enhance object-oriented and game development skills.

AeroEvac   2023
- Designed a pulley-based emergency evacuation system using CAD software to produce a functional 3D model.
- Documented a technical report detailing cost, safety, and design analysis for a client.

SKILLS

Programming Languages: C, C++, Python, Java, JavaScript, TypeScript, HTML, CSS, MATLAB, Assembly Language.
Frameworks and Libraries: React, Node.js, Astro, Arduino, PlantUML.
Tools and Technologies: GitHub, GitLab, Figma, KiCad, Simulink, PSpice, PCB Design, Circuit Design, Soldering, CAD, 3D Printing, Canva, Adobe Creative Cloud, OBS Studio, DaVinci Resolve, Microsoft Office, Google Workspace.