

# Parker TenBroeck

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🔗 ParkerTenBroeck

## Education

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**Brock University** Sept 2022 - Dec 2025  
*BSc Honours Computer Science (Major GPA: 90%)*

## Experience

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**Programming and Manufacturing Mentor** Jan, 2022 - April 2025  
*FIRST Robotics Team 1114 Simbotics*

- Teach students how to effectively and safely use manual mills.  
Reading part sheets, setting up materials/tools, and machine operation order.
- Introduce new students to programming(java) while familiarizing them with the teams codebase.
- Provide assistance when asked by students for homework, personal projects, or robotics work.

**Computer Technician** St. Catharines, ON  
*Renewed Computer Technology Niagara(RCT Niagara)* April - Sept. 2023

**Bicycle Mechanic** Mississauga, ON  
*Trek Bicycle Store Mississauga* April - Sept. 2022, 2025

**Student Summer Maintenance Position** St. Catharines, ON  
*Municipal Works, City of St. Catharines, Ontario* June - Aug. 2021

## Skills

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- Experienced software developer in Rust, Java, and C.
  - Comfortable using version control systems(git) to collaborate on projects.
  - Extensive experience in developing for both Linux and Windows operating systems.
  - Leadership and team collaboration experience from mentoring robotics and volunteering

## Projects

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**Ticket Express** [repository](#) [🔗](#)

- Developed a SaaS with a large group using software engineering team collaboration tools/processes.
- Applied SCRUM development and used GitHub Projects to coordinate team efforts
- Tools Used: Java, SQL, HTML, Javascript, CSS

**Quality Control System (RCT Niagara)** [repository](#) [🔗](#)

- Developed a quality control system for outgoing computer systems to track and speed up process of quality control.
- Tools Used: Rust, SQL, HTML, JavaScript, CSS

**Custom Operating System/Kernel** [repository](#) [🔗](#)

- Built a kernel and bootloader for the Milk-V DUO S RISC-V development board
- Implemented VGA driver, UART driver, virtual memory support, rudimentary scheduling
- Tools Used: Rust, C, RISC-V ASM

## Technologies

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**Languages:** Rust, Java, C, C++, SQL, Risc-V, MIPS

**Technologies:** Linux, JVM, SQLite