

# Parker TenBroeck

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ParkerTenBroeck

## Education

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

## Experience

**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 programing(java) while familiarizing them with the teams codebase.
  - Provide assistance when asked by students for homework, personal projects, or robotics work.

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

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

**Student Summer Maintenance Position**  
*Municipal Works, City of St. Catharines, Ontario*

## Skills

- 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

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

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

**Technologies:** Linux, JVM, SQLite