

Levi Belland

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SKILLS

Languages: C++, Java, Python, HTML, CSS, Javascript, Bash, Typescript, SQL

Technologies: Git, Svelte, Vue, Nuxt, Arduino, FreeRTOS, Raspberry Pi, NodeJS, Deno, Robotics, PlatformIO

EXPERIENCE

Software Engineer

June 2024 – Present

Lumyn Labs

Duluth, MN

- Architected and implemented a web application for offline device configuration, allowing users to design LED animations, configure sensors, and manage hardware without coding.
- Architected and maintained SDKs across 4 languages (C, C++, Java, Python), providing consistent API interfaces for hardware control and data acquisition.
- Designed and implemented a novel serial communication protocol enabling file transfers at speeds of up to 4KB/s.
- Built and maintained continuous integration systems to synchronize artifacts across 6 separate repositories.
- Developed a custom Shopify theme to improve online storefront UX and integrate product demos.
- Created marketing materials to attract customers, showcasing product capabilities and applications to drive adoption.

FIRST Robotics FRC Team 5690 – Software Lead

Sept. 2021 – June 2024

Esko High School

Esko, MN

- Fine-tuned YOLOv8 models with custom camera transforms to track objects in real-time at 4 m/s for autonomous capture
- Built autonomous control system using AprilTag localization and odometry to enable safe obstacle avoidance
- Integrated A* pathfinding for fully autonomous play, making the robot one of the first to achieve autonomous gameplay at a competitive level
- Trained team members with no prior programming experience to proficiency in C++, enabling contributions to robot software
- Managed agile development across multiple sprints with iterative testing, collaborating with non-technical departments

Assistant Coach

Sept. 2024 – Present

FIRST Robotics FRC Team 7797

Esko, MN

- Coached students in programming concepts (Java), version control (Git), and agile project management, enabling them to contribute to team software development.

EDUCATION

Lake Superior College

Expected May 2026

AAS Computer and Web Programming

Duluth, MN

Lincoln High School

Graduated May 2024

High School Diploma

Esko, MN

PROJECTS

Svelte Rollup Express Template | github.com/nobody5050/svelte-rollup-express-template

- Developed a reusable template for rapid prototyping of CRUD applications using Svelte, Rollup, and Express.js

OneHacks Digital Hackathon, Winning Entry

- Created a social media chatbot which automatically calculates and compares shipping prices across multiple couriers