Travis Brown

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OBJECTIVE

Seeking co-op internship in software engineering from January 2026 to August 2026

EDUCATION

Rochester Institute of Technology

Rochester, NY

Bachelor of Science in Computer Science, Minor in Criminal Justice

Expected: May 2027

GPA: 3.91

SKILLS

Languages: Java, Python, C++, C, HTML/CSS, JavaScript, TypeScript, SQL

Embedded: Logic Analyzer, STM32 MCUs, SPI, PWM, ADC

Tools/Environments: Git, GitHub, Linux, MacOS, PostgreSQL, Angular, JUnit

PROJECTS

Real-Time GPS Tracking with Wireless Communication

RIT Electric Vehicle Team

Dec 2024 - Present

- Acquired real-time GPS data, including latitude, longitude, altitude, time, speed, from the TESEO-LIV3F GNSS module.
- Implemented low-level hardware control on the ESP32 using the ESP-IDF framework for seamless communication.
- Utilized NMEA 0183 protocol over UART to send commands and receive GPS data from the TESEO module.
- Used LoRa radio communication to transmit real-time GPS data from the ESP32 to a remote computer.
- Enabled live telemetry data for performance analysis and real-time insights into motorcycle performance.

Custom Course Flowchart Maker

Personal Project

Oct - Dec 2024

- Developed a full-stack web app using Flask, SQLite, JavaScript, HTML, and CSS to help students plan and organize course schedules.
- Engineered a RESTful API to store, retrieve, and manage user-created course flowcharts for seamless data persistence across sessions.
- Designed a relational database schema using SQLite and SQLAlchemy to efficiently store users, semesters, and courses.

Personal Expense Tracker

Personal Project Dec 2024

- Built a full-stack expense tracking web application using Flask, SQLite, JavaScript, HTML, and CSS to help people stay organized.
- Added an interactive dashboard displaying up-to-date financial data, giving users an overview of their spending habits.
- Integrated Chart.js for data visualization, enabling users to track spending trends with easy to understand line graphs and pie charts.

WORK EXPERIENCE

RIT Electric Vehicle Team - Embedded Software Engineer

Aug 2023 - Present

- Worked with a multidisciplinary team to develop C/C++ firmware for custom-designed PCBs.
- Implemented driver support for PWM, ADC, SPI, and Timers on the STM32F4 series microcontroller, working closely with the STM32 Hardware Abstraction Layer.
- Applied STM32's CubeMX and CubeIDE to generate example code and converted it to work with EVT's hardware-agnostic API.
- Leveraged manufacturer datasheets to understand and utilize configuration registers properly, and researched peripherals for debugging.
- Employed Kanban principles and methodology for efficient project management.

Spire Business Inc - Digital Content Assistant

Jun 2024 - Present

- Created SEO-optimized web pages with HTML/CSS per owner's specifications.
- Resolved common computer issues, such as slow performance, application errors, and login difficulties, ensuring minimal downtime.

BJ's Wholesale Club - Sales Associate

Jun - Aug 2023

- Collaborated with team members to deliver high-standard customer service, ensuring consistent customer satisfaction.
- Processed high-volume transactions quickly and accurately using POS systems, handling cash, credit, and membership payments.