

# TREVOR BORDEN

Software Engineer · Florida, United States · trevormborden@gmail.com · (518)222-9800 · [www.linkedin.com/in/trevorborden](https://www.linkedin.com/in/trevorborden)

## Summary

Embedded software and data engineering specialist with experience in the automotive and home appliance industries. Recently graduated with a Bachelor of Science in Software Engineering from Rochester Institute of Technology. Looking for a full-time entry-level position in software development and engineering.

## Experience

Jan 2022 - May 2025

**Lead Database Engineer**

[Electric Vehicle Team](#)

The Electric Vehicle Team at RIT designs and builds electric racing vehicles. Before my contributions, the team had no form of data collection or analysis. As the lead database engineer, I led the development of SQL and NoSQL databases for telemetry data that provide new insights into bike performance.

- Constructed original database schema and website prototypes to support system concept
- Established custom ETL pipeline to interpret and digest .MF4 files using .dbc files
- Facilitated the development of a full stack application for data uploads and data visualization
- Produced technical documentation explaining software and architectural decisions
- Managed projects in an Agile team environment, resulting in project completion 3 weeks before deadline (4 direct reports)
- Enhanced battery management system to expand system communication capacity, increasing communication capabilities by 50%

**Tools:** C/C++, Python, CAN, MySQL, NoSQL, Flask, REST API, MongoDB, React, Javascript, Git, Jira

**Relevant Skills:** Embedded Software, Data Engineering, Web Engineering, Leadership, Agile & Scrum, Software Architecture, Version Control

Jan 2024 - June 2024

**Embedded Software Engineer**

[Keurig Dr Pepper](#)

When I joined Keurig Dr Pepper, the demand for new products created a need for portable software that could be used on ever-changing firmware. My contributions made the existing IoT library more modular and OS-agnostic, allowing it to be used on any brewing hardware.

- Increased feature testing speed by up to 25% by creating CLI commands to bypass system processes
- Decoupled system architecture by establishing a new callback system for an IoT connectivity library
- Utilized Jenkins for continuous integration and deployment
- Enhanced efficiency and reliability by exposing architectural weaknesses in existing design, reducing stored file size by 35%

**Tools:** C/C++, IAR, Google Test, RTOS, IoT, Git, Bitbucket

**Relevant Skills:** Embedded Software, Agile & Scrum, Software Architecture, Software Testing, Version Control

June 2023 - Aug 2023

**Full Stack Software Engineer**

[GlobalFoundries](#)

In the semiconductor industry, tool failures can be costly and often difficult to resolve. During my time at GlobalFoundries, I developed data-driven solutions to detect tool failures earlier and provide insights into why they occurred; leading to a reduction in tool down-times.

- Expedited tool maintenance by creating web interface which displays insights into tool failure
- Optimized test coverage and software reliability by introducing E2E unit and integration testing with Cypress
- Demonstrated independent problem solving skills as only software developer on the team
- Reduced risk to tools and products by increasing visibility on immature products and flagging instances of unacceptable tool conditions

**Tools:** Javascript, PHP, Cypress, SQL, OracleDB

**Relevant Skills:** Web Engineering, Software Testing, Data Engineering, Data Analysis, Unit Testing, CI/CD

Jan 2023 - June 2023

**Embedded Software Engineer**

[Transonic Systems](#)

When I joined Transonic Systems, they were starting a massive refactoring project in which 60% of the code needed to be rewritten. In a team of five developers, I contributed to 30% of the refactoring effort in 3 months, which resulted in project completion 1 week before expectation.

- Participated in code review sessions to discuss code quality and architectural decisions
- Improved system architecture and design by employing modern design patterns
- Elevated code clarity and modularity by refactoring legacy software to a modern, platform-based solution

**Tools:** C/C++, Linux, QTCreator, Git

**Relevant Skills:** Embedded Software, Software Architecture, Software Testing, Version Control, Unit Testing

## Education

May 2025

**Bachelor's Degree in Software Engineering**

Rochester Institute of Technology

GPA 3.78