

# Eike Morgado Bödecker

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Portfolio: <https://eikemb.github.io/>

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## Profile

I am a Computer Science undergraduate student and a recent graduate of a DEC in Computer Science at John Abbott, where my fascination with technology converges with my ability for problem-solving. Proficient in various programming languages and development methodologies, I am dedicated to expanding my skill set and contributing innovative solutions to real-world challenges. Additionally, I am fluent in English, French and German allowing me to communicate effectively in multiple diverse environments.

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## Job Experience

August 2025 – Present: Junior Software Specialist at RheEnergise.

January 2024 – August 2025: Software Engineering Intern at RheEnergise.

- Designed and developed control systems using LabVIEW with DQMH framework to improve code maintainability and enable asynchronous task handling
- Programmed PLCs in Structured Text and Ladder Logic for industrial test rig control systems with enhanced sensor accuracy
- Implemented Modbus TCP and EtherCAT communication protocols for deterministic data exchange with sensors and VFDs
- Performed live debugging and bug fixes collaborating remotely with on-site UK team to ensure operational control system functionality
- Designed test rig systems improving reading accuracy and streamlining UI for enhanced usability

## Education

2024-2027: Concordia University, Computer Science Bachelors

2021 – 2024: John Abbott College, Computer Science Program. (Graduated with an 89% Average)

- A Hands-on program teaching about various programming languages and up to date practices featured in working in teams to develop software in an agile environment.
  - Recipient of the honour roll every semester. (Award received for having a grade above 80% in the semester without fails)
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## Projects

- **Budgeting Application:** In a group we made a budgeting app that allows users to insert expenses and review their budgets. This was done using C# and WPF for the UI. We worked using Agile having “daily” stand up meetings and using a point system for stories. This project taught me how to work in a close to real programming work environment.
  - **Racing Help Mobile Application:** This project was a prove of concept to see if it would be worth making a race legal device to help on a sailing regatta start line. The app allows the user to place the start line location and start a start timer. Throughout the start sequence the app get the boat location and calculates based on the speed and heading how quickly the boat will arrive at the start line and if one should slow down or speed up.
  - **Work Hours Tracking Mobile Application:** This project was a continuation of the windows application I had made the previous year. I wanted to make it easier to use and more accessible, so I made it into a cross platform mobile application. Compared to the windows application this version had added features such as user authentication and organization groupings. Workers can join their employer’s organization and managers can view the workers’ hours. Thus, the manager would not need to ask workers how many hours they had worked. The app was made in Flutter/Dart and used firebase email authentication as well as the Firestore online database for storing organization data and user data such as hours worked.
  - **Car Builder Android Application:** This project was a group project made for an application development class. It was made using Kotlin and Jetpack Compose. It made use of firebase Authentication and the Firestore online database. The app had a database of car parts store on the database and allowed users to create their own car builds using those parts. Users could view other people’s car builds. The app took inspiration from the concept of PcPartpicker.
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## Known Programming Languages and Technologies

C – C++ – C# – .Net – Maui – ASP.Net – WPF – Java – Object Oriented Programming – SQL – JavaScript – React – Html – CSS – Kotlin – Python – Dart – Flutter – Firebase Authentication – Firestore – Firebase Realtime Database – MongoDB – LabVIEW – Structured Text – Ladder Logic – Bash – PowerShell – Tech Support – Networking – Android – Cross Platform Development