

# Matheus Camilo Ferraro

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## Junior Software Developer

Software Development student at NBCC Moncton with a unique focus on bridging **Enterprise Software (.NET/C#)** and **Embedded Systems (C++/IoT)**. Proven ability to build robust full-stack web applications and programmable hardware prototypes. Bilingual (Portuguese/English) and actively seeking a 2026 Internship or Junior role to apply technical problem-solving skills.

## Technical Skills

- **Languages:** C#, C++, Java, Python, SQL, JavaScript, HTML5/CSS3.
- **Frameworks:** ASP.NET Core 8 (MVC & Web API), Entity Framework Core, React (Basic).
- **Embedded Systems:** Arduino (Uno R3), ESP32, GPIO, PWM, UART, I2C, Wi-Fi/IoT Protocols.
- **Tools & Cloud:** Azure Fundamentals, Git/GitHub, Docker, Postman, Visual Studio.
- **Software Practices:** Clean Architecture, Onion Architecture, SOLID Principles, Hexagonal Architecture, Unit Testing (xUnit).

## Education

**Diploma in Software Development (Expected Graduation: June 2026)**  
**New Brunswick Community College – Moncton, New Brunswick**

- **Key Studies:** C# OOP, SQL Server, ADO.NET, MVC ASP.NET Core, Entity Framework, JavaScript/DOM, Node.js, Git/GitHub, Unit Testing, Java Enterprise, Spring Boot

## Certifications

- **Microsoft AI Skills Fest 2025:** Guinness World Record Attempt
- **MongoDB:** Connecting to MongoDB in C#
- **balta:** C# Fundamentals
- **freeCodeCamp/Microsoft:** Foundational C# with Microsoft

## Projects

### Recipe World | Full Stack Web Application

- Tech: ASP.NET Core MVC, RESTful API, Entity Framework Core, SQL Server, Bootstrap.
- developed a community-driven platform for sharing and reviewing recipes, featuring user authentication and dynamic content management.
- Designed a scalable database schema using Code-First migrations and implemented

Clean Architecture to separate concerns and applied Dependency Injection.

- Created a responsive frontend interface allowing users to upload photos and manage ingredient lists interactively.

### **Embedded Systems Portfolio | Hardware & Firmware Integration**

- Tech: C++, Arduino Uno, ESP32, Electronic Circuitry.
- Engineered multiple hardware prototypes including a Smart Temperature Monitor (Love-o-Meter) and an IoT Wi-Fi Connector using ESP32.
- Programmed optimized C++ firmware to manage state machines, sensor data acquisition (thermistors), and real-time outputs (LCDs/Servos).
- Demonstrated low-level debugging skills by troubleshooting circuit logic and signal processing via Serial communication.

## **Employment Experience**

### **Electronics Associate | Walmart | Moncton, NB**

- *Current role.* Deliver technical support for consumer electronics, troubleshooting software/hardware issues for laptops, tablets, and networking gear.
- Bridge the gap between technical specifications and user needs, explaining complex specs (RAM, Processors, OS) to non-technical customers in English and French (learning).
- Maintained 100% inventory accuracy for high-value assets while adapting to a fast-paced retail environment.

### **Operational Apprentice | Raízen | Ipaussu, Brazil - March 2024 – August 2024**

- Managed operational transactions using SAP (ERP), gaining practical exposure to enterprise software modules and data integrity standards.
- Analyzed the integration between organizational sectors through SAP, developing a foundational understanding of database structures and system logic.
- Enhanced problem-solving and teamwork capabilities within a corporate environment, connecting operational workflows with a strong interest in software development architecture.

### Languages

- **Portuguese:** Native
- **English:** Professional Working Proficiency
- **French:** Beginner / Learning