



Bruno Bollos Correa

Software Engineer | Railway Control Systems | C++, C#/.NET & Python | AI & Automation

📍 São Paulo, SP, Brazil ✉ bollos@outlook.com 💼 bollos00 🐙 Bollos00

Skills

- **Programming Languages:** C++, Python, C#, Java, SQL
- **Technologies:** Qt, FastAPI, Docker, .NET, Git, Linux, PostgreSQL, Neo4j, SQL Server, ActiveMQ, RabbitMQ, Redis, OPC
- **Human Languages:** Portuguese (native), English (C1), Spanish (B1)

Experience

Alstom, Software Engineer

Feb 2023 – present

- Delivered software solutions for **railway control and supervision systems** across projects in Brazil, Colombia, and Chile, designing project-specific architectures, coordinating subsystem interfaces, and collaborating with international engineering teams.
- **Handled 400+ engineering tickets** for São Paulo Metro Lines 1, 2, and 3, performing root-cause analysis and delivering software and configuration fixes that contributed directly to a major project milestone.
- **Promoted in 2025** in recognition of delivery impact, autonomy, agility, and work quality.
- **Pioneered AI-assisted software development** at Alstom Brazil by introducing GitHub Copilot, driving its adoption across the site, and serving as the local Ambassador.
- **Skills:** C++, C#/.NET, Git, GitLab CI/CD, SQL Server, ActiveMQ, OPC, Docker.

RoboFEI, Software Developer

Apr 2019 – Nov 2022

- Developed software for the **RoboFEI SSL team autonomous robotic soccer system**.
- Participated in five robotics competitions, most notably **RoboCup 2022** in Bangkok, THA.
- **Undergraduate research:** Implemented **supervised learning** techniques applied to evaluating the success of actions in robot soccer
- **Skills:** C++, Qt, Python, Git, Robotics, Linux, scikit-learn.

Projects

LibreMines

Apr 2020 – present

Cross-platform, open-source, Qt-based Minesweeper game for desktop systems.

- Skills: C++, Qt, CMake, GitHub Actions.

Undergraduate Thesis

FEI and São Paulo Metro

Route-planning and indoor-navigation solution for the São Paulo Metro.

Feb 2022 – Dec 2022

- Skills: Python, FastAPI, PostgreSQL, Neo4j, Docker, Java, Android, Embedded Systems.

MBA Capstone Project

MBA USP/Esalq

Real-time bus tracking and passenger information system.

Mar 2025 – Feb 2026

- Skills: Python, FastAPI, PostgreSQL, React, TypeScript, RabbitMQ, Redis, Docker, Git.

Education

BEng University Center of FEI, Electrical Engineering

São B. do Campo, SP, Brazil

Graduated top of the class with a CGPA: 8.4/10

Jan 2018 – Dec 2022

MBA USP/Esalq, Software Engineering

Piracicaba, SP, Brazil

May 2024 – Feb 2026