



IVAN CASTRO

SOFTWARE AND
AUTOMATION ENGINEER

PERSONAL PROFILE

Software and Automation Engineer with experience in industrial automation, collaborative robotics, and software development.

Skilled in C#, Beckhoff TwinCAT 3, ROS2, C++, SQL Server, and industrial vision systems.

Proactive team player with a strong interest in automation and robotics.

CONTACT DETAILS

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🏠 Fafe, Braga

🌐 <https://www.linkedin.com/in/ivanrcastro-472552232/>

SKILLS AND EXPERTISE

- Software debugging and root cause analysis
- Programming and software integration
- Clear technical documentation and communication
- Team collaboration

LANGUAGES

- Portuguese (Fluent)
- English (Intermediate)
- French (Basic)

EDUCATIONAL HISTORY

MsC in Industrial Electronics and Computers Engineering

Minho University | 2019 – 2024

- MSc in Control, Automation and Robotics & Microtechnologies.

WORK EXPERIENCE

Preh Portugal

Software and Automation Engineer | 2025 - Present

- Spearheaded the integration of automation software using C#/.NET, improving system reliability and maintainability.
- Developed and optimized control logic in Beckhoff TwinCAT 3 PLCs for industrial automation applications.
- Implemented industrial vision solutions using Sensorpart systems to enhance quality control processes.
- Collaborated within cross-functional teams using GitLab for source control and continuous improvement.

Bosch Car Multimedia Portugal, S.A

Automation and Robotics Engineer | 2024 - 2025

- Programmed and deployed collaborative robots for industrial automation applications.
- Contributed to an innovation project for the design and implementation of a robotic system to supply manufacturing lines, improving automation efficiency.