Vasco Magolo

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EDUCATION

BSc in Telecommunications and Informatics Engineering   2024 – 2027 (Expected)
Polytechnic Institute of Porto (ISEP)   *Porto, Portugal*

BSc in Electrical and Computer Engineering (Transferred)   2023 – 2024
Polytechnic Institute of Porto (ISEP)   *Porto, Portugal*

Professional Course of Computer Science   Graduated 2023
High School of Santa Maria da Feira   *Aveiro, Portugal*
- **Final Project:** Developed a LoRa-based IoT garden automation system. Integrated sensor data to control irrigation via a mobile app and web dashboard.

TECHNICAL SKILLS

Languages: C, Python, JavaScript (Node.js, Express.js), Java, TypeScript, Visual Basic, SQL.
Frameworks & Tools: React Native, ASP.NET, jQuery, Arduino, Git, VS Code.
Domains: Full-Stack Development, IoT (Internet of Things), Embedded Systems, Desktop Applications.

WORK EXPERIENCE

Robotics Instructor   Oct 2025 – Present
Academia de Robótica   *Portugal*
- Mentoring students in robotics fundamentals, algorithms, and logic using block-based programming and C++ (Arduino).

Software Developer (Internship)   May 2023 – July 2023
RISI   *Portugal*
- Engineered dynamic web interfaces using jQuery, ASP.NET, and SQL Server, improving data entry efficiency.
- Developed a task management desktop application utilizing Visual Basic and JSON for local data handling.

Visual Basic Developer (Internship)   June 2022 – July 2022
Screen-In, Lda   *Portugal*
- Designed and deployed an employee management system on Windows, integrating SQL Server for database management.

PROJECTS & COMPETITIONS

RoboCup & Robotics Competitions   *2022 – Present*
- **Festival Nacional de Robótica 2025 (Dragster):** Lead builder and core programmer. Responsible for hardware design and drag-racing algorithms.
- **RoboCup World Championship 2023 (Bordeaux, France):** Competed in the 'On Stage' challenge representing Portugal.
- **RoboCup National 2023 (Tomar):** Qualified for the World Championship. Lead programmer (C language) and hardware technician (soldering/electronics).
- **RoboParty 2022 (Univ. of Minho):** 2nd Place in Obstacle Challenge. Main programmer (C) and robot assembly lead.
- **Fête de la Science (Groslay, France):** Selected to represent the Portuguese robotics team internationally.

  Other Activities
- Participated in the 'TECLA' programming competition at the University of Aveiro (2023).