

# Manuel António Cruz Patrício

Informatics Engineer



## About me

Master's graduate in Informatics (June 2025) from the Polytechnic University of Bragança Bragança (IPB), with a background in Informatics Engineering and hands-on experience developing web, mobile, and wearable applications at Balvia Ecosystems. Contributed to research and academic initiatives, including a scholarship project that led to a CLF 2024 presentation and a published article. Completed additional training in enterprise development (SAP ABAP) and hold the OutSystems Associate Reactive Developer certification. Focused on reliable and structured problem-solving, with an ongoing commitment to strengthening my skills across IT domains, including database systems, backend architectures, and AI-enabled solutions.

## Personal

Manuel António Cruz Patrício  
Nationality: Portuguese  
Residence: Bragança

## Areas Of Interest

Web/Mobile Development • SAP Applications Development with ABAP

## Hobbies

Automobiles and Motorcycle Maintenance And Mechanics  
Past And Present Technologies  
Sports  
Classic Rock Music

## SHORT RESUMÉ

2022–2023

### Scholarship Holder

CEDRI · Bragança

As a result of my bachelor's final project I started working on a scholarship for my university where I researched and started development of a factory's 3D replica (Digital Twin) capable of handling user interactions and equipped with animations for the engine assets, where I worked with both Unity and Unreal Engine, as well as Blender.



2025–2025

### Internship

BALVIA ECOSYSTEMS · Bragança

While working on my Master's dissertation in IT, I secured a professional opportunity at the same company where I began my thesis. I am currently responsible for developing several software applications, including a wearable device, a smartphone app, and a web platform.



## DEGREES

2023

### Bachelor's in Informatics Engineering

CERTIFIED · Polytechnic University of Bragança



2025

### Master's in Informatics

CERTIFIED · Polytechnic University of Bragança



## PROGRAMMING

Dart



Python



Java



C#



OutSystems



ABAP



## CURRICULUM

2022–2023

### Scholarship Holder

CEDRI · Bragança

Development of a factory's 3D replica (Digital Twin).



2025–2025

### Internship

BALVIA ECOSYSTEMS · Bragança

Software Developer.



## CERTIFICATES & GRANTS

- 2023** Bachelor's in Informatics Engineering  
**2023** Associative Reactive Developer (Outsystems 11)  
**2024** Master's in Informatics

## LANGUAGES

<b>Portuguese</b>	C2	● ● ● ● ●
<b>English</b>	C1	● ● ● ● ●
<b>Spanish</b>	B2	● ● ● ● ●

## PUBLICATIONS

- July. 2024** *An Augmented Reality Intelligent Guide for the Automotive Industry*, Learning Factories of the Future. CFL 2024
- Dec. 2024** *Unstructuring the Sequentiality of Commits into a Semantic Network with Higher Informational and Functional Quality*, 2024 International Conference on Engineering and Emerging Technologies (ICEET), IEEE, Dubai, UAE.

✉ mpat\_001@proton.me ⚙ Bragança, Portugal ☎ +351 930 567 910