

# LUÍS RIBEIRO

INFORMATICS ENGINEER



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## PROFILE

My name is Luís Mário Ribeiro.

I'm an engineer grad with a Masters on Informatics Engineering @UMinho, Braga.

I am really into Language Processing and Formal Methods.

## PERSONAL INTERESTS

- Programming, Running and Sports, Photography, Exploring

## SKILLS

### SOFT SKILLS

- Easily Adaptable
- Fast Learner and Motivated
- Organized

### TECHNICAL SKILLS

- Formal Verification and Specification
- Software Modelling
- Scripting and Language Processing
- Back-End Developer (Python)
- Front-End Developer (ExpressJS)
- Ontologies and Context-free Grammars

## PROJECTS

### SVROS

2022

The *Security Verification in ROS (svROS)* tool concerns a technique, based on the software verification perspective, to automatically verify system-wide security potential miss-configurations of ROS2-based applications, through the study of *hyperproperties*. It relies on model-checking procedures, provided by *Alloy* language and analyzing framework. This tool was developed within my MSc's final dissertation, entitled "Formalizing ROS2 security configuration with Alloy".

**KEYWORDS:** Software Assurance, Formal Verification, Model Checking, Robotics

### GUIDEME

2021

Mobile application that enables users to book experiences within a location context, orientated by a self-promoting tourist guide.

This application was developed under a 6-month masters final team-project, which involved several pitches emphasizing the business and financial study.

**KEYWORDS:** Startup, Team Developing, Financial and Market Study, Mobile App

## EDUCATION

### UNIVERSIDADE DO MINHO

MSc degree in Informatics Engineering  
2017 - 2022

### SECUND ÁRIA CALDAS DAS TAIPAS

Sciences and Technologies  
2014 - 2017

## EXPERIENCE

### INTERNSHIP

HydraIT, Braga

2022

Partial Internship in *HydraIT* Braga, where I collected great knowledge about the solutions behind the implementation of Microsoft's ERP Business Central.

### RESEARCHER

INESC Technology and Science

2022

Worked as a research collaborator during a 6 month period. The research focused on software assurance within robotics systems through formal techniques, including property specification and model checking.

### ATTENDANT

MyPhone, Caldelas

2017

*MyPhone* was a allocated store in Caldelas, Guimarães dedicated to the sell and repair of technological products.