

# Pedro Amaro

Highly competent and ambitious informatics and computing engineer with several publications, projects and awards. Excellent technical competencies, using knowledge of Software Architecture, Artificial Intelligence, Computer Vision and Web Development to solve problems in a variety of projects. Strong interpersonal skills as well as being self-motivated, which enable effective and independent work within a team. Passionate about solving difficult problems to cultivate my abilities, while benefiting the world as a whole.

Viana do Castelo, Portugal

Portuguese

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## EDUCATION

### Faculty of Engineering of the University of Porto

#### Integrated Masters in Informatics and Computing Engineering

Bsc (3 years) + MSc (2 years)

2014 - 2019

Foreseen grade: 17/20 (Degree expected to be conferred September 2019)

## PUBLICATIONS AND PROJECTS

### Multi-Robot Learning of High-Level Skills in RoboCup

2019

Master's thesis with an emphasis on multi-robot collaboration.

The skills that were developed are well integrated within a team.

They were responsible for winning or tying simulated soccer games.

### Using Simulation Games For Traffic Model Calibration

2019

Published paper on the feasibility of calibrating traffic models with a low-cost driving simulator.

### Google Summer of Code / OpenStreetMap — [3dmr.eu](https://3dmr.eu)

2017 - Present

Began as a Google Summer of Code project and launched in March 2018.

Serves as a repository of 3D models in order to increase the graphical fidelity of 3D map renderers.

Used as an API by at least 3 other projects.

## AWARDS

2019 | Google Hash Code

Ranked 543rd out of 6671

participants in the qualification round.

2018 | Jscrambler's Ninja

Challenge Ranked 2nd out of 650 participants.

2014 | International Olympiad in Informatics Participant.

2014 | National Olympiad in Informatics Ranked 2nd out of the 28 participants in the finals.

## LANGUAGES

Portuguese (Native), English (C2 Proficiency), Spanish (A1)

## SKILLS

Interests: Software Architecture, Artificial Intelligence, Simulation, Computer Vision, Web Development

Use regularly: Python, JavaScript, Java, C++, C, SQL, HTML5, CSS3, Git, PostgreSQL

Have used: Keras, OpenCV, Qt, C#, Lua (C library), Prolog, GLSL, LaTeX, Redis, NGINX