

JOSÉ PIRES

Mechatronics Engineer

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🌐 [ElectroQuanta](#)



PROFESSIONAL EXPERIENCE

Researcher in the Electronics field

DTx CoLab

📅 June 2023 – Now

📍 University of Minho, Guimarães

AeroNext project: low-level software development for UAV applications

Researcher in the Mechatronics field

Centre for MicroElectroMechanical Systems

📅 Jan 2016 – May 2023

📍 University of Minho, Guimarães

GradSint project: software development for a laser sintering equipment.

UI development in Matlab for FGM generation targetting the machine.

NorteEmpresa: Development of electronic scenting device. Software

development: firmware and UI. **HAMABICO:** software toolchain

development for a multimaterial laser equipment: slicer/toolpath generator,

post-processor and printer; firmware development. **ADD ADDITIVE:**

study of manufacturing of sensoric alloys using hybrid additive/subtractive

process. **COMP4TA:** study of advanced metal composites using hybrid

additive/subtractive process. **LaserMulticer:** design and manufacturing

of laser textured and functionalized ceramic substrates.

Researcher in the Mechatronics field

**Centre for Rapid and Sustainable Product Development
(CDRSP)**

📅 Apr 2015 – Dec 2015

📍 IPL, Leiria

GradSint project: software development for a laser sintering equipment.

UI development in Matlab for FGM generation targetting the machine.

EDUCATION

MSc in Industrial Electronics and Computer Engineering

University of Minho

📅 Sep 2018 – Now

📍 University of Minho, Guimarães

PhD in Mechanical Engineering

Centre for MicroElectroMechanical Systems

📅 Feb 2017 – Dec 2023

📍 University of Minho, Guimarães

Approved;

MSc in Mechatronics Engineering

Centre for MicroElectroMechanical Systems

📅 Sep 2015 – Dec 2019

📍 University of Minho, Guimarães

SKILLS

- Software development
- Embedded systems development
- Automation and control
- Robotics and computer vision
- User Interface development
- Multi-platform development: Windows, Mac and Linux

PROGRAMMING

- C/C++
- Assembly
- Verilog
- Matlab
- Python
- Perl
- Shell scripting
- Common Lisp
- Scala

LANGUAGES

- **Portuguese** Native
- **English** Fluent
- **German** Intermediate

STRENGTHS

- Hard-worker
- Autonomous and self-motivated
- Permanently curious

MAIN INTERESTS

- Traveling
- Reading
- Chess
- Football
- Hacking/Tinkering

Course grade:18;

MSc in Mechanical Engineering

Laboratory of Engines and Applied Thermodynamics (LaMoTA)

📅 Sep 2006 – Dec 2014

📍 University of Minho, Guimarães

Course grade: 14