JOSÉ PIRES

Mechatronics Engineer

✉ Vizela, Braga @ **ze.miguel.pires25@gmail.com** ☎ (+351) 911901290 ○ **ElectroQuanta**

PROFESSIONAL EXPERIENCE

Researcher in the Mechatronics field
Centre for MicroElectroMechanical Systems

📅 Jan 2016 – Now 📍 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

PhD in Mechanical Engineering
Centre for MicroElectroMechanical Systems

📅 Feb 2017 – Now 📍 University of Minho, Guimarães

MSc in Mechatronics Engineering
Centre for MicroElectroMechanical Systems

📅 Sep 2015 – Dec 2019 📍 University of Minho, Guimarães

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

PUBLICATIONS

Article
Centre for MicroElectroMechanical Systems

📅 2022 📍 University of Minho, Guimarães

A Global Methodology for 3d Multi-Material Laser Powder Bed Fusion Processes

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