

DIOGO VALA CORREIA

Electronics and Telecommunications Engineering MSc Student UA

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VOLUNTEER EXPERIENCE

Logistics

EESTEC LC Aveiro

Dec 2019 – Present

Aveiro, Portugal

- Organized a PCB design and manufacturing workshop: sourced sponsors, speaking professors and developed the workshop support material

Member of the Electronics Department

Engenius - UA Formula Student

Oct 2018 – Sep 2019

Aveiro, Portugal

- Developer of the *Datumbazo* platform, created to process, store and display in real time data generated by the cars
- Planned the electrical distribution system for the Phoenix Combustion Car: cabling, distribution, connectors and redundancy system for fail-safe for both power and CAN bus
- Maintained the embedded systems pipeline tools. Maintained the Latex documents templates for documentation and reports

Member of the Electrical Powertrain Department

Engenius - UA Formula Student

Oct 2017 – Oct 2018

Aveiro, Portugal

- Worked on the electric powertrain for the future SPYRO Electric Car: hazard and safety study for the electric power distribution, power distribution and battery monitoring system and CAN bus interface for the BMS system
- Provided consulting in electronics and programming for the Combustion Powertrain department
- Worked in the CAN bus electronics and software development with the Telecommunications and Electronics Department
- Developed the Latex Documents Templates for documentation and reports

PROJECTS

Greenscale

Politecnico di Torino

Dec 2018 – Nov 2019

Torino, Italy

An IoT platform that enables monitoring of sensor information, allowing automated actions to be taken to control and maintain greenhouses.

- Web interface for management and data visualization
- Example code and libraries for NodeMCUs allowing a fast and plug and play experience connecting sensors and actuators
- Built with micro-services architecture that scales the resources to the needs and use cases

MY LIFE PHILOSOPHY

"Something smart or heartfelt, preferably in one sentence."

MOST PROUD OF



Fantastic Achievement

and some details about it



Another achievement

more details about it of course



Another achievement

more details about it of course

STRENGTHS

Hard-working

Eye for detail

Motivator & Leader

C++

Embedded Systems

Statistical Analysis

LANGUAGES

English



Spanish



German



REFEREES

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Prof. Gamma Delta

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EDUCATION

M.Sc. Electronics and Telecommunications Engineering

Universidade de Aveiro

📅 Sept 2001 – June 2002

📍 Aveiro, Portugal

Dissertation title "Implementation of UHF RFID Retail inventory management system using EPC Global Architecture Framework":

- RF survey of industrial shelves for EPC Class1 Gen2 passive tag readings
 - Optimized RF operations, report contents and tag filtering through the LLRP protocol
 - Architecture follows the supply-chain specifications in the EPC Global Framework
 - Used Docker to containerize and orchestrate Fosstrak Java services
 - Developed HTTP services (REST, websockets) using Golang
 - Developed a web interface for inventory management with React JS
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Exange Student

Politecnico di Torino

📅 Sept 2018 – Jul 2019

📍 Torino Italy

Studying at PoliTo made possible to extend the specializations offered in Aveiro with a set of subjects design for the automotive and telematic industries. Supported by the resident vehicle manufacturer group, Fiat, and university neighbor, General Motors, the education was nothing but the best I could get. Subjects frequented at PoliTo:

- Automotive infosystems (30/30)
 - Statistical learning and neural networks (-/30)
 - Programming for IoT applications (30L/30)
 - Project Management (21/30)
 - Signal processing: methods and algorithms (20/30)
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B.Sc. in Electronics and Telecommunications Engineering

Universidade de Aveiro

📅 Sep 2014 – Jul 2017

📍 Aveiro, Portugal