DIOGO VALA CORREIA

Electronics and Telecommunications Engineering MSc Student UA

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in diogovalacorreia dvcorreia

VOLUNTEER EXPERIENCE

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

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

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

WORK PHILOSOPHY

Every product should be intuitive for the user, have an inspiring industrial design and be cleverly architectured to be robust. Technology products should feel like an extension of yourself. Like a tool, technology shouldn't compromise your focus but intuitively extend your range of actions
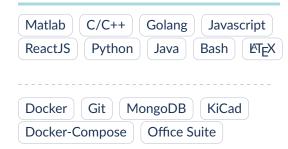
INTERESTS

System Design
defining the architecture, modules, interfaces, and data for a system to satisfy specified requirements

Internet of Things (IoT)
from embedded systems to cloud, UHF RFID, EPCGlobal framework

Cloud
microservices, web services, networking and machine learning

Embedded Systems
firmware, DSP and hardware design

SKILLS

Matlab C/C++ Golang Javascript
ReactJS Python Java Bash LaTeX

Docker Git MongoDB KiCad
Docker-Compose Office Suite

LANGUAGES

Portuguese (Native)
English (C1)

REFEREES

Prof. José Alberto Fonseca
@ IT Universidade de Aveiro / MicroIO
  jaf@ua.pt

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"

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)

B.Sc. Electronics and Telecommunications Engineering
Universidade de Aveiro

📅 Sep 2014 – Jul 2017   📍 Aveiro, Portugal

HONORS

1st Place @ XXI Edition of MicroRato UA: Category of CiberRato
IEEE Aveiro

📅 May 2017   📍 Aveiro, Portugal

TEST SCORE

English Assessment (C1)
Common European Framework of Reference for Languages (CEFR)

📅 Mar 2019

- Reading Comprehension (C2)
- Listening Comprehension (C2)
- Grammar (B2)
- Vocabulary (C1)