



Guilherme Mendes

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ABOUT ME

I consider myself a communicative and ambitious person with critical thinking and passion for technology.

WORK EXPERIENCE

Programmer

JuniFEUP [17/09/2020 – 01/10/2021]

City: Porto

Country: Portugal

Software developer. Website and application creation and maintenance.

EDUCATION AND TRAINING

Bachelor in Eletronics and Computers Engineering

Faculty of Engineering of the University of Porto [16/09/2018 – 07/2021]

Address: R. Dr. Roberto Frias, 4200-465 Porto, 4200-465 Porto (Portugal)

https://sigarra.up.pt/feup/pt/cur_geral.cur_view?pv_curso_id=22823&pv_ano_lectivo=2021

Field(s) of study: Eletroctécnia , Computadores , Informática

Eletrónica, Microprocessadores e Microcontroladores, Sistemas Digitais, Telecomunicações, Programação, Redes de Computadores

Master in Eletronics and Compjuter Engineering

Faculty of Engineering of the University of Porto [17/09/2021 – Current]

Address: R. Dr. Roberto Frias, 4200-465 Porto, Porto (Portugal)

https://sigarra.up.pt/feup/pt/cur_geral.cur_view?pv_curso_id=22806&pv_ano_lectivo=2021

LANGUAGE SKILLS

Mother tongue(s): **Portuguese**

Other language(s):

English

LISTENING C1 READING C1 WRITING B1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Spanish

LISTENING C1 READING C1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

DIGITAL SKILLS

Programação

C / Programação de microcontroladores / Git / Python / ReactJS / SQL / NodeJS and ExpressJS / Java

Software

EAGLE / Visual Studio Code / Microsoft Office / Github / Jupyter Notebook / Multisim / Linux / VisualStudio / Windows

DRIVING LICENCE

Driving Licence: B

PROJECTS

Software development of an ATM with RFID and PIC32

In the scope of the Computer Architecture course, we were asked to develop a project with a kit of components provided by the professor. Our choice was the RFID kit (mfrc522 + tag), which ended up being used for the development of a simple ATM software.

Development of a coffee machine in an FPGA

In the scope of the Digital Systems Laboratory course unit at the University of Aveiro, we were proposed to carry out a project of our choice in an FPGA using the VHDL language. Our project consisted of developing a coffee machine with a descaling and freezing system.

Development of an autonomous robot car

In the scope of the course unit of Laboratory of Electronics II at the University of Aveiro, we were proposed to build an autonomous robot car capable of avoiding obstacles using ultrasonic sensors. To carry out this project, a pic32 programmed in the C language was used with a library provided by the university.

Github tracker App

Development of an application that locates github users closer to where the user is, thus being able to communicate with other developers. To carry out this project, ReactJS were used for the front-end, Express for the back-end and MongoDB for the database.

Data Link Protocol

In the scope of the Computer Networks course, I developed and implemented a data layer communication protocol. The data transmission uses an asynchronous serial port, RS-232, as the medium. This protocol must be capable to do frame synchronization, connection establishment and termination, frame numbering, error control and flow control.

Relationship App based on music taste

[Current]

In the scope of the Software Design course, my group developed an relationship application based on music taste. The app uses the Spotify API to register/login, JWT for authorization and authentication, C# .NET framework for the back-end, Avalonia framework for the front-end and Postgres as database management system.

Yawn detection system

[Current]

In the scope of the Computer Vision course, my group has been developing a yawn detection scope with image recognition that will detect if the driver is or is not yawning during driving actions.

FORMAÇÕES

Google Agile Project Management

Certified training in Agile Project Management guided by Google.

This training covered the values and philosophy of Agile project management, the pillars of Scrum and how they support Scrum values, Scrum events and how to configure them in a Scrum team. Finally, I was taught how to train an Agile team and how to help its members overcome challenges.

Formação Lean Startup

Certified Lean Startup training guided by APGEI (Portuguese Association of Industrial Engineering).

Topics such as Management 3.0 techniques and management of self-motivated teams, development of a business model through the Business Model Canvas and the operation and structure of a Startup were addressed.

HOBBIES AND INTERESTS

Música

Desporto