Guilherme Mendes

Home : Porto, Portugal

Email: guilhermecostamendes00@gmail.com **Phone:** (+351) 934019454

Website: https://gcmendes22.github.io/

Github: https://github.com/gcmendes22

LinkedIn: https://www.linkedin.com/in/guilherme-mendes-7847a21a3/

Gender: Male **Date of birth:** 05/06/2000 **Nationality:** Portuguese

ABOUT ME

Since my childhood, I have had a huge passion for techonology and I entered in the high school, I realized that this is what I wanted to do for the rest of my life.

I consider myself an ambitious person with critical thinking, who likes to work in a team.

I am software developer at Controlar and currently finishing my Master in Electrical and Computer Engineering in the field of "Telecommunications, Electronics and Computers".

I am always looking for new opportunities to increase my knowledge and grow as a professional.

WORK EXPERIENCE

[18/07/2022 – Current]

Software Developer / Test Systems

Controlar

City: Alfena
Country: Portugal
Software modules development, validation, maintenance and documentation.
Test machine automation engineering.
Client support.

[17/09/2020 – 01/10/2021]

Programmer

JuniFEUP

City: Porto
Country: Portugal
Software developer. Website and application creation and maintenance.

EDUCATION AND TRAINING

[16/09/2018 – 07/2021]

Bachelor in Eletronics and Computers Engineering

Faculty of Engineering of the University of Porto   https://sigarra.up.pt/feup/pt/cur_geral.cur_view?pv_curso_id=22823&pv_ano_lectivo=2021

Address: R. Dr. Roberto Frias, 4200-465 Porto, 4200-465, Porto, Portugal
Field(s) of study: Eletroctécnia | Computadores | Informática
Eletrónica, Microprocessadores e Microcontroladores, Sistemas Digitais, Telecomunicações, Programação, Redes de Computadores

[17/09/2021 – Current]

Master in Eletronics and Compjuter Engineering

Faculty of Engineering of the University of Porto   https://sigarra.up.pt/feup/pt/cur_geral.cur_view?pv_curso_id=22806&pv_ano_lectivo=2021

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

LANGUAGE SKILLS

Mother tongue(s): Portuguese

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** B2

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

Spanish

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

DIGITAL SKILLS

Programação

C | Git | Python | ReactJS | SQL | C# | NodeJS and ExpressJs | Machine learning | MATLAB | Labview | JavaScript

Software

EAGLE | Microsoft Office | TestStand | Multisim | Linux | Windows | Wireshark

DRIVING LICENCE

Cars: 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 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.

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.

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.

Network configuration and development of an FTP download application

In the Computer Networks course unit, we set up a small network of some computers in order to be able to run an application capable of downloading files from an FTP server developed by us in C.

[Current] **Relationship App based on music taste**

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.

[Current] **Yawn detection system**

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 yawing during driving actions.

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.

Song Popularity Prediction

In the scope of the Machine Learning course, I develop a software to predict the popularity of a given song by technical details, such as, acousticness, key, feeling transmitted, instrumentalness, title, etc... This datat was provided by various fonts, such as the Spotify API. To carry out this project, Python was used as programming language.

HOBBIES AND INTERESTS

Música

Desporto

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.

EVENTS AND CONTESTS

[22/04/2022 – 24/04/2022] **Participation in TecStorm 2022**

Techstorm is the largest technological marathon that supports youth entrepreneurship and the development of ideas capable of generating an impact on society.

My group's idea fits into the category of "Energy Solutions for a Low Carbon Future" supported by Galp. Our idea was to convert mechanical energy into electrical energy through vibrations.