



Bianca Reded Auwarter

Nationality: Brazilian **Date of birth:** 18/01/1996 **Phone number:** (+351) 934903653

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EDUCATION AND TRAINING

High School

Colégio Bom Jesus [14/02/2009 – 14/12/2012]

City: Paranaguá

Country: Brazil

NQF Level: Exame Nacional do Ensino Médio - ENEM

Bachelor's Degree in Computer Engineering

Pontifícia Universidade Católica do Parana [16/02/2013 – 19/06/2018]

City: Curitiba

Country: Brazil

Electrical and Computer Engineering at Pontifícia Universidade Católica do Parana in Brazil

Bachelor's Degree in Electrical Engineering

Polytechnic Institute of Bragança [08/09/2019 – 11/07/2022]

City: Bragança

Country: Portugal

Electrical and Computer Engineering
At Polytechnic Institute of Bragança

Master's Degree in Industrial Engineering

Polytechnic Institute of Bragança [08/08/2021 – Current]

Address: Av sá carneiro, 5300252 Bragança (Portugal)

WORK EXPERIENCE

Trainee

PUC-PR [18/03/2015 – 07/03/2016]

Country: Brazil

Undergraduate research within the Research Group on Knowledge Discovery and Machine Learning, aiming at developing novel computer vision techniques and deep learning methods for the understanding of audio, images, and videos.

Trainee

Coficab-Companhia de Fios e Cabos Lda [07/06/2019 – 08/08/2019]

City: Guarda

Country: Portugal

-Estágio de verão no Departamento de Engenharia Tecnológica

-Summer internship in the Technological Engineering department

Trainee

Instituto Politécnico de Bragança [30/09/2019 – 07/01/2020]

City: Bragança

Country: Portugal

-Estágio de iniciação científica "Teoria de Jogos e Sistemas Multiagentes na modelação e simulação de Cadeias de Abastecimento".

-Scientific initiation stage "Game theory and Multiagent Systems in Supply chain modeling and simulation"

Trainee

Instituto Politécnico de Bragança [21/03/2021 – 09/07/2021]

City: Bragança

Country: Portugal

Activities in laboratory management, support for laboratory classes, and concurrently, in research and preparation of experimental work with a didactic nature, demonstrating the fundamental laws of Physics.

Trainee

Instituto Politécnico de Bragança [19/02/2021 – 09/07/2021]

City: Bragança

Country: Portugal

Development of audiovisual and interactive content. Utilization of Information and Communication Technologies in the academic environment.

Learning mentor

Instituto Politécnico de Bragança - Centro em Digitalização e Robótica Inteligente [18/07/2021 – 22/07/2021]

City: Bragança

Country: Portugal

Intern at the Ciência Viva Program - Monitoring in the internship 'Modeling of Energy Conversion Systems.

Avionics and Quality Engineer

TAP Air Portugal [19/06/2023 – Current]

City: Lisbon

Country: Portugal

Preparation/verification/approval of engineering technical orders or similar documents, dispatch of airworthiness directives and service bulletins, creation/verification/approval of DOA (Design Organization Approval) projects, fleet management, and aircraft leasing contract drafting, monitoring/control/operational and aeronautical performance planning, as well as investigations and the preparation of highly specialized technical reports in the aeronautical domain.

LANGUAGE SKILLS

Mother tongue(s): **Portuguese**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

German

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Spanish

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

CONFERENCES AND SEMINARS

Seminars

[07/06/2018 – 07/06/2018]

Civil Engineering Seminar: 'The Future of Civil Engineering and Challenges for the 21st Century'

Conferences

[Bragança, 28/05/2018 – 28/05/2018]

Portugal Steel 2018

Conferences

[Bragança, 04/06/2018 – 04/06/2018]

Hap Carrier RoadShow '18

Digital Transformation: Are You Ready for This New Challenge?

[23/06/2020 – 23/06/2020]

Codecon 2020 - Digital

[08/09/2020 – 11/09/2020]

Circular Economy Week

[Bragança, 12/09/2021 – 16/09/2021]

The Circular Economy Week (CEW) brings together a series of initiatives developed within the scope of the Circular Labs project, aimed at companies, institutions, researchers, students, and the general population. It creates a unique opportunity for debate on the Circular Economy and its impact on contemporary society.

DIGITAL SKILLS

Microsoft Excel / Microsoft Word / C C++ C / Basic JavaScript / Python / Skype / Microsoft Teams / HTMML / BCS: Coding and Logic / Computer Hardware Assembly / Programming Languages: Java, C, C++, C#, GO, Swift, Objective-C, Scala, Python, R / Machine Learn

PROJECTS

Projects

Each Other - Volunteer Resource Allocation Management Platform and App. - Life Enablers Contest - Takeda

Projects

[21/05/2020 – 24/05/2020]

SAFEBOX - Secure Delivery Box for Merchandise, Anti-theft, and Antibacterial - Hacking.Help Contest.

Projects

[10/06/2018 – 09/01/2019]

Innovation Project Queue(less) HTQ at Hospital Terra Quente as part of the Demola North Portugal Co-creation platform.

Projects

[07/06/2020 – 08/06/2020]

Rota Brigantia - Local Commerce Food Delivery App.

HONOURS AND AWARDS

Life Enablers

Finalista do concurso de ideias Life Enablers: App e plataforma Each Other.

Hacking.Help

Second Place in the Logistics Vertical at the Hacking.Help Covid-19 by Hacking.Rio 2020 with the SAFEBOX SYSTEM project.

Hackathon Online Castlethon

[07/06/2020]

First Place in the Brigantine Commerce Vertical at the Online Castlethon Hackathon, held on June 8 and 9, 2020, with the project 'Rota Brigantia'.

Caminhão - Guinness World Records

[28/09/2018]

Voluntário na organização da iniciativa de promoção aos lagos do sabor (Portugal) - A mais longa cadeia de retransmissão de auto-fotografias - com intuito de quebrar o record do Guinness World Records.

ORGANISATIONAL SKILLS

Organisational skills

Boas capacidades de organização adquiridas na cadeira de Administração para Engenharia.

Good organizational skills acquired in the Engineering Management course.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Boa capacidade de comunicação adquirida através de participação em projetos académicos, apresentação de seminários e projetos de extensão.

Good communication skills acquired through participation in academic projects, presentation of seminars and extension projects.

COURSES

Reabilitação de áreas e edifícios industriais

[05/10/2018 – 18/01/2019]

ICCL- Instituto de la Construcción Castilla y León

(Carga horária: 100 hrs)

Avaliação técnica de áreas e edificios industriais (BRAGANÇA)

[01/08/2018 – 13/01/2019]

ICCL- Instituto de la Construcción Castilla y León.

(Carga horária: 100 hrs)

WorkShop Skills4it

[12/01/2021 – 12/01/2021]

ITSector em parceria com o IPB - Instituto Politécnico de Bragança

(Carga horária: 2 hrs)

VISITA TÉCNICA

Cimpor - Cimentos de Portuga

Jornadas Técnicas de Engenharia Civil - Visita Técnica Cimpor. Betão, A solução Natural: Evolução e Novos Desafios. 2018.

DRIVING LICENCE

Driving Licence: AM

Driving Licence: A1

Driving Licence: A2

Driving Licence: A

Driving Licence: B1

Driving Licence: B

Driving Licence: BE

PUBLICATIONS

A Finite Element Based Tool to Support the Understanding of Electromagnetism Concepts

[2022]

Conference of the European Association for Education in Electrical and Information Engineering

A significant pedagogical innovation in teaching and learning Electromagnetics in undergraduate engineering programmes is the resource to simulations, preferably interactive. A classical approach would require a vector calculus background and three-dimensional geometrical resourcefulness, typically not matured by undergraduate students. On the other hand, interactive simulations are able to support a meaningful visual insight into the fundamental laws and concepts of electromagnetic theory. This work describes an educational tool which relies in an open source graphical user interface to finite element software, able to provide interaction, accuracy and visual interpretations of the Electromagnetics fundamental laws and classical problems, able to hasten the students' understanding, by lessening the abstract nature of vector fields, level curves and gradient fields. This tool is to be further developed to gather a set of vast examples and typical problems, able to support a web-based training platform.