

Victor Balbino

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EDUCATION

Federal University of Vale do São Francisco (UNIVASF)

Bachelor of Science in Computer Engineering

November 2017 – June 2024

GPA 3,5/5

Federal University Pernambuco (UFPE)

Specialization in software development for the automotive industry

Focus on embedded systems, automotive networks (CAN, LIN, Ethernet), AUTOSAR, RTOS, and software validation. Includes programming in C/C++, configuration management, and software testing for the automotive industry. Provides hands-on experience in embedded software design, real-time operating systems, and automotive standards through industry-aligned projects.

October 2024 – Present

WORK EXPERIENCE

Embraer Commercial Aviation

Intern

February 2023 – June 2024

- Intern of PMO in Programs Directory of Embraer Commercial Aviation
- Develop digital solutions using Microsoft tools (PowerApps, PowerBI, Automate) to optimize processes and improve data management and conduct training on technological trends for the Program Management team;
- Created interactive dashboards in PowerBI, consolidating data from different sources, enabling real-time analysis of key indicators in the area. Developed applications in PowerApps to automate tasks such as skills assessment, freeing up time for strategic activities.
- Increased data visibility, facilitating data-driven decision making. Reduced task processing time, increasing team productivity. Team with greater knowledge of technological trends, preparing the company for the future.

EXTRACURRICULAR ACTIVITIES

F-Carranca Aerodesign Team

Electrical Systems and Performance Analysis Member

Juazeiro, Bahia, Brazil

August 2018 – December 2022

- Designed and analyzed electrical and electronic systems for aircraft, focusing on embedded systems and flight control;
- Responsible for component sizing, including selection and integration of sensors, actuators, and flight controllers (Pixhawk);
- Assembly and implementation of embedded telemetry, and thus, obtained data in flight with the use of Arduino, ESP32 and the Pixhawk flight controller, after which processed the data and passed on the information obtained to the other sectors.
- The information generated by telemetry helped to increase the score of the technical report of the sectors that depended on them. The team reached the 2nd overall position in Design Score, winning the flight stage and being Champion.

Weather Station for Aerodesign Competition

An application where competitors of Aerodesgin Competition could see meteorological data

May 2022 – July 2023

- Designed and developed in HTML, CSS and Javascripts, and uses ESP8266 and BMP280 as sensor;
- The backend was implemented on Google Firebase;
- The site was tested on the 2022 Aerodesign Competition;
- This project was used as my bachelor thesis.

UNIVASF

Researcher

Juazeiro, Bahia, Brazil

August 2021 – October 2022

- Student researcher with a project funded by FABESP(Bahia Research Support Foundation)
- Conduct research on the impact of digital games and their influences on children's physical health

Project: PET Saneamento Ambiental

Scholarship

Juazeiro, Bahia, Brazil

November 2020 - June 2021

- Manages the PET website, updating the interfaces according to the advisor's demands and adding new functions;
- Wrote and published an article investigating technological innovations applied to health and environmental education. Also made the web pages easier to use and with a more user-friendly layout.

SKILLS

SOFT SKILLS

Time management, Systems Thinking, Emotional Intelligence, Problem Solving, Conflict resolution, Negotiation

AWARDS

1st Place Team, out of 50 teams, SAE Brasil Aerodesign-Regular Class (2019)

Embraer trophy for excellence in design, award given to the most innovative and challenging project in the aerodesign competition (2019)

TECHNOLOGIES

Matlab, Simulink, Python, Power BI, Power Apps, Power Automate, Office 365, HTML, CSS, JS, Jupyter Notebook, Excel, Firebase, Arduino, ESP32, SQL, Git

ONLINE COURSES

Foundations of Project Management(Coursera, 2023), Business Writing Principles(Linkedin Learning, 2024), Data Science Methodology (IBM, 2021), Applied Plotting, Charting & Data Representation in Python (University of Michigan, 2022), MATLAB Onramp (Mathworks, 2021) and Machine Learning Onramp (Mathworks, 2022)