

VÍTOR GABRIEL REIS CAITITÉ

Data Scientist

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Belo Horizonte, Brazil

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vcaitite

EXPERIENCE

Graduate Research Assistant

Computational Intelligence Laboratory (LITC), UFMG.

May 2021 - Present

Belo Horizonte

- Data analysis.
- Study and application of machine learning models.
- Failure prediction using machine learning models.

Embedded Systems Developer

Unidata Automação Ltda

Sept. 2020 - Jan. 2022

Belo Horizonte

- Development of vehicle data acquisition system with ESP32 microcontrollers.
- Android mobile application development.
- Working with Bluetooth, BLE, Esp-Now and LoRa communications.

Intern

Unidata Automação Ltda

Sept. 2019 - Aug. 2020

Belo Horizonte

- Tests with wireless protocols.
- Data analysis.
- Study and tests with Controller Area Network (CAN).

Extension Scholarship Student

Electrical Engineering Tutorial Education Program of UFMG

May. 2017 - Sept. 2019

UFMG - Belo Horizonte

- Development and teaching of MATLAB, Python, Arduino, and LaTeX courses.
- Development of both high performance and educational line follower robots.
- Organising of line-following robot competitions for undergraduate students.
- Conceive and work on media and marketing material.

Undergraduate Research Assistant

Wireless Networks Lab - WiNet

Dec. 2017 - May 2019

UFMG - Belo Horizonte

- Development of APIs for IoT sensors and actuators.
- Writing and reviewing scientific articles.

EDUCATION

Master's in Electrical Engineering

Federal University of Minas Gerais

2021 – present

UFMG - Belo Horizonte

Master's degree in electrical engineering with focus Computational Intelligence.

Bachelor in Electrical Engineering

Federal University of Minas Gerais

📅 2016 – 2021

📍 UFMG - Belo Horizonte

Degree in electrical engineering with focus on Embedded Systems and Computational Intelligence.

Internet of Things Technology Course

Cruzeiro do Sul

📅 2019 – 2021

📍 UFMG - Belo Horizonte

Degree in Internet of Things Technology.

ACHIEVEMENT



Champion of Autonomous Line Following Robots Competition (CoRA - UFMG) 2020 among undergraduate students

Winner of the academic category with the project "Robot that avoids obstacles using fuzzy logic".

PUBLICATIONS

- [1] Castro, T. O., Caitité, V. G., Macedo, D. F., & dos Santos, A. L. (2019). CASA-IoT: Scalable and context-aware IoT access control supporting multiple users. International Journal of Network Management, 29(5), e2084.
- [2] Caitité, Vítor Gabriel Reis, et al. "Diffusion of Robotics through Line Follower Robots." 2018 Latin American Robotic Symposium, 2018 Brazilian Symposium on Robotics (SBR) and 2018 Workshop on Robotics in Education (WRE). IEEE, 2018.
- [3] Caitité, Vítor Gabriel Reis, et al. "ROBÔ SEGUIDOR DE LINHA EMPREGANDO CONTROLE PID." Mostra Nacional de Robótica - MNR 2018.

SKILLS

- Development and application of machine learning models.
- Data Analysis.
- Firmware development for embedded systems.
- Programming Languages:

Python R Matlab C C++ Java Kotlin SQL SML

- Software and Platforms:

Linux Windows Git Jupyter Notebook LaTeX Arduino ESP32 STM32 Android Studio
MySQL Alexa Skill Kit

LANGUAGES

Portuguese



English



French

