



Caio Conti Guidote Ribeiro

Date of birth: 15/11/1998 | **Nationality:** Brazilian | **Gender:** Male |

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ABOUT ME

Currently pursuing an M.Sc. in Computer Science at Federal University of Minas Gerais (UFMG), Brazil. Graduated in Automation and Control Engineering (5 years) at UFMG with one exchange semester at Hochschule Rhein-Waal, Germany.

WORK EXPERIENCE

22/11/2021 – 01/07/2023 Brazil

UNDERGRADUATE VOLUNTEER RESEARCHER LABORATORY OF COMPUTER VISION & ROBOTICS (VERLAB - UFMG)

- Robots routing problems, path planning, genetic algorithms, reinforcement learning and simulation.
- Main work: path design for a ground and an aerial vehicle that cooperate to survey shelves in a warehouse. Paper ranked among the top 15: <<https://ieeexplore.ieee.org/document/9995748>>
- Other works: paths for multi-robots systems with communication restrictions, dubins orienteering problem with dynamic rewards and reinforcement learning for human-robot interaction.

20/08/2021 – 09/02/2022 Brazil

SOFTWARE ENGINEER INTERN LOCALIZA RENT A CAR SA

- Backend Software Developer (30 hours/week).
- Responsible for developing the Human Resources software application.
- C#, SQL and JavaScript.

10/12/2020 – 10/07/2021 Brazil

UNDERGRADUATE FELLOWSHIP RESEARCHER EVOLUTIONARY COMPUTATIONAL LABORATORY - UFMG

- Evolutionary methods for optimizing the design of power distribution lines based on environmental conditions.
- Software development, designing graphical interfaces and generating reports.
- Funded by the State Electric Power Company *CEMIG Distribuição S.A.*

01/11/2017 – 30/11/2020 Brazil

ELECTRONIC/SOFTWARE DIVISION MEMBER | MANAGER AVANT - UFMG

- AVANT - UFMG is a student-composed team that works with drones automation.
- Electronic assembly, control, computer vision, navigation and path planning for aerial vehicles.
- ROS, Python and C++.
- From 2019 to 2020 served as the Team Manager.

● EDUCATION AND TRAINING

01/08/2017 – 07/07/2023 Belo Horizonte, Brazil

AUTOMATION AND CONTROL ENGINEER Federal University of Minas Gerais

Diploma in Automation and Control Engineering:

- Control and Automation.
- Robotics.
- Natural Computation and Machine Learning.

Website <https://ufmg.br/> | **Type of credits** Hours Attended | **Number of credits** 3600 (5 Years) |

Thesis Collaborative UGV/UAV Path Planning for Inventory Management in Warehouses. Grade: 100%.

19/09/2022 – 03/02/2023 Kleve, Germany

EXCHANGE STUDENT Hochschule Rhein-Waal

Evolutionary Algorithms, Bioinspiration, Scientific Methods, Leadership, Cross-Cultural Management and Creativity.

Website <https://www.hochschule-rhein-waal.de/> | **Field of study** Mechatronic Systems Engineering |

Type of credits ECTS | **Number of credits** 25

● LANGUAGE SKILLS

Mother tongue(s): **PORTUGUESE**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

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

● DIGITAL SKILLS

ROS(robot operating system) | programming: Python, MATLAB and SQL | C / C# / C++
