



## Caio Conti Guidote Ribeiro

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

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[caiocontig@gmail.com](mailto:caiocontig@gmail.com) | **Website:** <https://caiocontig.github.io/> | **LinkedIn:**

<https://www.linkedin.com/in/caio-conti/> | **Address:** Belo Horizonte, Brazil (Home)

### ABOUT ME

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

### WORK EXPERIENCE

22/11/2021 – 01/07/2023 Brazil

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

- Robots routing problems, navigation, path-planning and genetic algorithms.
- 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.
- 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.
- Participated in the Brazilian Robotics Competition - Petrobras Robotic Challenge 2020: responsible for autonomous search and navigation.

## EDUCATION AND TRAINING

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14/08/2023 – CURRENT Belo Horizonte, Brazil

**M.SC. IN COMPUTER SCIENCE** Federal University of Minas Gerais

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- Scholarship holder CAPES/PROEX (government-funded).
- Navigation of mobile manipulators in an environment with humans.
- Robot dynamics and control.
- Reinforcement learning.

**Website** <https://ppgcc.dcc.ufmg.br/en/> | **Field of study** Robotics | **Final grade** 98/100 |

**Type of credits** 15 hours/1 credit | **Number of credits** 22 (2 years)

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

**AUTOMATION AND CONTROL ENGINEER** Federal University of Minas Gerais

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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

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- Evolutionary Algorithms, Bioinspiration, Scientific Methods, Leadership, Cross-Cultural Management and Creativity.
- Received Ambassador Grant Scholarship.

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

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

## LANGUAGE SKILLS

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Mother tongue(s): **PORTUGUESE**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1

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

## DIGITAL SKILLS

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

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