

Personal Data 28 years old, Brazilian

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### Languages

Portuguese (native) English (C1) German (C1) French (B2)

#### **Skills**

System Analysis and Control, C/C++, Python, Kotlin, Assembly, MATLAB, Android Development, Frontend, Backend, Embedded, Automation, Robotics

### **Summary**

Mechatronic engineer studenting with experience in **system analysis and control** and **programming**. Loves to work in a cooperative environment towards solving complex problems. Has worked in two scientific initiations toward using an **advanced control technique** (Model Predictive Control). Loves to learn languages and to help others develop their projects.

## **Experience**

2016–2016 Acal BFi Dietzenbach, Hessen, Germany

Intern

During this internship, I developed a platform to measure the power loss inside

the kernel of the inductor used in a PFC circuit.

2010–2014 **Corpo de Bombeiros Militar de Minas Gerais** Divinópolis, Minas Gerais, Brazil

Fireman

As a firefighter I was entitled to work as a first-aider and diver, being the first response in all sorts of accidents, from fire in the wilds to car accidents and

industrial and natural disasters.

### **Education**

2013-Today	Mechatronic Engineering	Centro Federal de Educação Tecnológica de Minas Gerais
	Since my first semester, I helped other students from graduation, master and Ph.D.	
	with their projects, especially with programming. In my last year, I became the student representative in the Graduation Council	
2015-2016	Student Exchange	Frankfurt University of Applied Sciences, Germany

I studied as an exchange student through the Brazilian government's program Ciências

Sem Fronteiras (Science Without Borders).

2015–2015 **Student Exchange** Université Grenoble Alpes, France

I studied as an exchange student through the partnership between UGA and CEFET-MG. There I worked in the robotics laboratory helping the team who won the second

place in the National Instruments MyRIO Paris competition.

### **Extracurricular**

2017 & 2018	Python mini-course I ministered a Python mini-course at my university. The textbook (in Portuguese) is freely available at https://acristoffers.me/assets/Python3.pdf
2017	<b>Semana C&amp;T - Week of Science and Technology</b> My project got the first place in the 13rd workshop at my university.
2015	<b>National Instruments MyRIO Compatition, Paris</b> I helped the team that got the second place in the competition. I was responsible for the code interfacing with the camera and recognizing colors.

Latin American Robotics Competition 3rd Place

I was part of the team that got the third place in the competition. I was responsible for

the circuitry and programming of one of the robots.

### **Interests**

2014

**System Analysis and Control Theory** I worked with standard PID with transfer function models and state-space models using static feedback and model predictive control. I also had a quick look at LMI (linear matrix inequalities) programming.

**Programming** C/C++, Python, Kotlin, Rust, Ruby, MATLAB...Languages are just tools in the belt. I can program using structured, object oriented and functional paradigms. I always try to use design patterns to make the code more organized and maintainable.