# Bruno Vale Barbosa Eiterer

Developer

Current interests include low-level embedded software, close to the hardware, as well as development of the hardware itself, matching the experience acquired during my career. I'm also interested in high-level software and app development in Python and C#.

## Experiences

**04/2018 - 02/2019**

### ASML - The Netherlands

Worldwide leader in lithography machines, used in integrated circuits manufacturing

*Embedded Software Intern in the Motion Control team*

- Implementation of an EtherCAT protocol prototype in C
- Implementation of test code in Python
- Succesful integration of the protocol with existing code
- Development of getting started tutorials for new team members

**01/2014 - 03/2018**

### Embedded Systems Group - UFSC

**Floripa-Sat project team member**

Floripa-Sat is a project whose objective is developing the first Cubesat nanosatellite completely developed by students in Brazil

*Intern in the Energy Power System*

- Development of the firmware for the microcontroller and several other integrated circuits in C
  - Usage of communication protocols ($I^2C$, SPI, UART, One-Wire)
  - Implementation of Maximum Power Point Tracking algorithms
  - Implementation of the task scheduler
- Development of the temperature control system for the nanosatellite batteries.
- Development of the voltage and current measurement circuits using amplifiers and ADCs
- Development of the test methodology and its documentation
- Implementation of buck and boost switch-mode converters
- Solar panels, switch-mode converters and load modeling using Matlab and Simscape
- Participation in the project requirements definition
- Participation in the project hardware development
- Participation in the debugging of all modules

## Education

**03/2012 - 02/2019**

### Electrical Engineering Bachelor

*Federal University of Santa Catarina, Brazil*

## Personal Information

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## Languages

| | |
|---|---|
| Brazilian Portuguese | ●●● Native |
| English | ●●● Fluent |

## Programming

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|---|---|
| C | ●●● Advanced |
| Python | ●○○ Basic |
| C++ | ●○○ Basic |
| Matlab | ●○○ Basic |
| C# .NET | ●○○ Basic |
| WPF | ●○○ Basic |

## Skills

| | |
|---|---|
| Git | ●●○ Intermediate |
| ClearCase | ●○○ Basic |
| MS Office | ●●○ Intermediate |
| LaTeX | ●●○ Intermediate |
| Simulink | ●○○ Basic |
| Altium Designer | ●○○ Basic |