

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 <i>Embedded Software Intern in the Motion Control team</i> <ul style="list-style-type: none">• Implementation of an EtherCAT protocol prototype in C, both in Linux and Bare-Metal• Implementation of test code in Python• Successful 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 <i>Intern in the Energy Power System</i> <ul style="list-style-type: none">• Development of the firmware for the microcontroller and several other integrated circuits in C<ul style="list-style-type: none">– Usage of communication protocols (I²C, 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 hardware development• All activities were executed under Scrum methodology

Education

03/2012 - 02/2019	Electrical Engineering Bachelor <i>Federal University of Santa Catarina, Brazil</i>
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Personal Information

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Languages

Brazilian Portuguese	● ● ● Native
English	● ● ● Fluent

Programming

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

Skills

Git	● ● ○ Intermediate
ClearCase	● ○ ○ Basic
MS Office	● ● ○ Intermediate
L ^A T _E X	● ● ○ Intermediate
Simulink	● ○ ○ Basic
Altium Designer	● ○ ○ Basic