









# ERIVELTON GUALTER DOS SANTOS

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## Languages

- Portuguese
- English
- Spanish

## Projects

**ROBOFEI**  
For the RoboFEI project, from Artificial Intelligence Laboratory, we developed autonomous robots to play soccer that serve as research platform in the areas of Artificial Intelligence, Embedded Electronics, Control Engineering, Precision Mechanics and Software Development.

**Assistive Technology Center**  
Development of a Power-Assisted Wheelchair controlled by Electromyography signal.

## Awards

- Prouni* Scholarship  
Full-Time Scholarship at *FEI University* – 2010-2016
- Premio CREA* Outstanding Bachelor Award 2017
- Science without Borders Scholarship 2013/2014
- 1st Place at Brazilian Robotic Competition 2011/2013
- Dean's List* - Academic achievement at *Western Michigan University*. 2013.
- 1st Place at Latin American IEEE Robotics Competition 2012.

## Experience

- Present**  
**Apr/2017** **Cleveland State University** – Control, Robotics and Mechatronics Laboratory  
*Graduate Research*
  - Developed a Novel Actuation Mechanism with Controllable Stiffness with Energy Regeneration for prosthetics application.
- Aug/2018**  
**Apr/2018** **Google Summer of Code 2018 Internship** – under GNU Octave Organization  
*Student Developer*
  - Developed an [Interactive Tool for Single Input Single Output \(SISO\) Linear Control System Design](#) for GNU Octave, also known as sisotool in Matlab
- Jul/2017**  
**Apr/2017** **Vtech Consulting Ltda.** – Automation Metrology Department  
*Application Engineer*
  - Providing support and training to GOM robotic products, such as automated Metrology Sensors and Deformation Analyses Sensors.
- Mar/2017**  
**Ago/2016** **Stefanini: Software Application Development** – Process Automation Department  
*RPA Specialist*
  - Building automation solutions using *Robotics Process Automation (RPA)* techniques
- De/2014**  
**Aug/2013** **Western Michigan University** – Computer Architecture and Systems Research Lab  
*Research Assistant*
  - Competitive analysis/benchmark and implementation of microncontroller projects for automobile applications using C language.
- Jun/2013**  
**Jan/2011** **FEI University** – Artificial Intelligence Laboratory  
*Robotist*
  - Lead Programmer of the robot soccer team. Developed the strategy to pass system.

## Education

- Present**  
**Aug/2017** **Cleveland State University**, Cleveland, OH (USA)  
*Doctor of Engineering, Mechanical Engineering*
  - Area of Study: Energy regeneration in robotics, application to prosthetic legs.
- Dec/2016**  
**Jun/2010** **FEI Univeristy**, São Paulo, Brazil  
*Automation and Control Engineering*
  - Performing several independent scientific research. Several publications in national and international conference. Built a [Power-assisted Wheelchair](#) for senior design project.
- Dec/2014**  
**Aug/2013** **Western Michigan University (WMU)**, Kalamazoo, MI (USA)  
*Study abroad, B.S., Electrical/Mechanical Engineering*
  - Contributing in projects multi-departmental: Mechanical, Electrical and Computer Science Engineering.
- Dec/2008**  
**Jan/2006** **SENAI "Roberto Simonsen"**, São Paulo, SP  
[Machinist & Mechanic Apprentice](#)
  - Manufactured high precision "prototypes" using conventional and Computer Numeric Control (CNC) machine tools, such as: lathes, grinders, mills, drilling, press, and computer numerical controlled machines.

## Skills

MATLAB/Simulink	● ● ● ●	Python	● ● ● ○
C/C++	● ● ● ●	VHDL	● ● ● ○
Version-control (Git)	● ● ● ●	HTML, CSS,	● ● ● ○
AutoCAD 2D/3D	● ● ● ○	Pelican	