

SILAS OLIVEIRA DE TOLEDO

1680 East-West Road, POST 109, Honolulu, HI 96822
silasodt@hawaii.edu • 808-956-2336

EDUCATION

Federal University of Itajubá, UNIFEI, Itajubá, Brazil

Undergraduate Degree (5 year degree in Bachelor of Science) in Electrical Engineering, July 2013

- Major: Power Electronics;
- Degree evaluated by the National Council of Examiners for Engineering and Surveying (NCEES) and found to be the equivalent of a bachelor's degree in electrical engineering from an EAC/ABET-accredited program in the United States;

INSA Centre-Val de Loire Blois (formerly ENIVL), Blois, France

Master's Degree (M2-Professional Master) in Sciences and Technologies, Sept. 2011 - July 2012

- Study Abroad Program in Electronics, Signals, and Microsystems.

EXPERIENCE

HNEI (Hawai'i Natural Energy Institute), Honolulu, Hawai'i

Oct. 2017 - Present

Junior Power System Engineer with the Grid Integration Project – GridSTART Team

- Research activities on integration of renewable energy resources in the electrical grid;
- Data analysis, modeling and power flow studies of smart grid systems;

Helibras (Airbus subsidiary), Itajubá, Brazil

Sep. 2012 - Mar. 2016

Project Design Engineer in the Avionics Systems Integration Section

- Created, prepared, and reviewed electrical wiring diagrams WD, layouts, and electrical design plans for electrical systems;
- Designed electrical installations for a wide range of applications, including: Communication Systems, Control Systems, Navigation Systems, etc.;
- Overviewed the selection, assembling, installation and maintenance of components used in the electrical wiring for civil and military helicopter programs;
- Served as the point person for technical issues between the Engineering and Sales Departments and the suppliers and vendors;
- Provided technical support to Maintenance and Purchasing Departments concerning electrical systems and electrical installations;
- Provided technical support to Technical Publications and Customer Support Departments concerning the electrical components and wiring diagrams manual;

M2M Non-destructive Testing, Les Ulis, France

Feb. 2012 - Aug. 2012

Engineering Intern with the Firmware Development Team

- Integrated and embedded an algorithm in one of the company's electronic systems (Multi.X++).

Artificial Intelligence (AI) at UNIFEI, Itajubá, Brazil

Feb. 2009 - Dec. 2010

Student Researcher

- Developed algorithms to control autonomous robots and used AI methods (Fuzzy and Annotated Paraconsistent Logic APL) to research the control of autonomous robots in unknown environments.
- Assisted in the organization of ISAP (International Conference on Intelligence Systems Applications to Power Systems (Smart Grids)) in 2009.

OTHER SKILLS

Language Skills: Fluent in English, Brazilian Portuguese, and French; Conversational in Spanish.

Computer Skills: IGE+XAO, Catia, AutoCAD, MATLAB, Python, C, C++, and VHDL.