

Owen Geraldo Betharte

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Education

Florida Institute of Technology, Melbourne, FL

Master of Science Mechanical Engineering, GPA 3.40 May 2018

Specialization: Thermal Fluid Sciences

Bachelor of Science Mechanical Engineering, GPA 3.00 May 2016

Skills

ANSYS, PTC Creo, COMSOL, eQuest, Fluent, LabView, Leadership, Machine Tools, MATLAB, MS Office, NASA-Chemical Equilibrium with Applications, Project Management, SolidWorks

Projects

Florida Institute of Technology, Melbourne, FL

Aug 2013 - Present

Florida Renewable Energy & Energy Efficiency Technologies (REET) Program

- Designed and created energy model using eQuest for the Alumni House at FL Tech to achieve Net Zero Energy and LEED Platinum.
- Performed and calculated energy consumption and energy audit.
- Researched energy efficient HVAC units
- Presented findings and summary report to assigned professor

Humanitarian Outreach – Senior Design (Team Lead)

- Invented a plastic compression molding device that will create shoes in underdeveloped countries for 8 cents a shoe
- Conducted FEA using ANSYS and Creo Parametric

Intelligent Football Sled – Junior Design

- Converted a tradition football blocking sled into a variable resistance system that gives feedback in the form of reaction time and applied force.
- Developed LabView code for instrumentation and measurement.
- Performed ground vibration testing with impact pneumatic cylinder coupled with accelerometers
- Designed support structure in PTC Creo and tested in ANSYS

Experience

Florida Institute of Technology, Melbourne, FL

Aug 2013 - Present

Graduate Student Assistant

- Assisted the Dean of the College of Engineering and his office administrators with his daily tasks, software programming (XML, HTML5), proctored exams, gave tours of the College of Engineering to prospective students.
- Responsible for maintaining stock of tangible engineering supplies for the Olin Engineering Complex
- Organize, deliver, and maintain configuration control of secure documents (i.e. student grades, tests, and personal information)
- Supervisors: Sheila Spirito (321) 674-8020, Judy Trybaik (321)674-7318

Freelance Technical Drawing Artist

- Made and prepared technical drawings for clients to be submitted to the US Patent and Trademark Office
- Client: Stephanie Bacon (321) 674-6141

Honors

- Eagle Scout Award – Boy Scouts of America, Central Florida Council, Troop 323
- Dean's List 2016

Co-curricular Activities

- American Society of Refrigeration and Air conditioning Engineers (ASHRAE) Student Chapter President (2015-present)
- American Society of Mechanical Engineers (ASME)