

Katie Hart

3329 Fawnwood Dr. Ocoee, FL 34761
239-810-9496 | katiehart@mail.usf.edu

EDUCATION

August 2012- Expected July 2016, **University of South Florida** Tampa, FL
Bachelors in Mechanical Engineering GPA: 3.11/4.0

EXPERIENCE

Jan 2016-Present, **Tampa Electric Company-Polk Power Station** Mulberry, FL
Engineering Co-op

- Developed several testing mechanisms to optimize water treatment plant efficiency and performance
- Communicated with operators of water treatment plant to determine problem areas of the plant and where to improve
- Performed Jar Testing to develop visual and data recordings of changes in chemical variables

Fall 2014-Present, **University of South Florida** Tampa, FL

Undergraduate Research Assistant – Dr. Kyle B. Reed – Rehabilitation Engineering and Electromechanical Design (REED) Lab

- Perform cutting edge multidisciplinary research building, designing, and testing passive dynamic walker systems
- Applied Solidworks knowledge to design parts and MATLAB programming for comprehensive data analysis
- Utilized additive manufacturing techniques

May 2015-Aug 2015, **UTC Aerospace Systems-Winslow Life raft** Lake Suzy, FL

Engineering Intern

- Improved and organized canister drawings for existing Life raft drawings and files
- Created new 3-D models of canisters utilizing Autodesk Inventor
- Developed an understanding of FAA regulations and how to properly follow rules and procedures for Life rafts

Nov 2013-Apr 2014, **QTM Inc.** Oldsmar, FL

Manufacturing Undergraduate Intern

- Lead student intern: trained new interns on water jet machine, shop rules, and clean-up practices
- Created work schedules with Microsoft Office for five other students from Pinellas Tech and USF
- Fabricator of various small-scale, high specific parts
- Maintained and operated water jet machine, metal grinders, and brake press to ensure efficient production

Fall 2013-Fall 2015, **University of South Florida** Tampa, FL

Engineering Peer Mentor – USF College of Engineering

- Mentor to freshmen engineering students transitioning into college life
- Planned academic and social events to encourage student involvement and professionalism

LEADERSHIP EXPERIENCE & ACTIVITIES

Fall 2014-Present, **University of South Florida** Tampa, FL

American Society of Mechanical Engineers (ASME)

Chairman

- Commanded executive board meetings and general body meetings
- Recruited sponsorship for events, activities, and guest speakers

Vice Chairman

- Conducted executive meetings, workshops, and presentations for ASME
- Budgeted and supervised logistics for our USF Engineering EXPO Hovercraft presentation
- Recruited members to form interdisciplinary engineering teams for our ASME competitions and projects

Treasurer

- Handling funds of \$4,000 or more
- Executive board of over 400 members

HONORS & AWARDS

- Student Engineer of the Year Award- Florida West Coast Section of American Society of Mechanical Engineers (2014-2015)
- Northrop Grumman “Using Technology to Eliminate Massive Paper Waste” Mindsumo Competition Winner (Summer 2014)
- Lockheed Martin E-Week Competition Participant (January 2012)