

# Kristopher Garrett Koepke

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## EDUCATION

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**University of Florida**, Gainesville, FL  
B.S. Mechanical Engineering (December 2017)  
Engineering GPA: 3.41 / Overall GPA: 3.34

## WORK EXPERIENCE

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**Duke Energy**, St. Petersburg, FL

**Mechanical Engineering Co-op**

*Maintenance and Diagnostic Center – Thermal Performance Team* Fall 2016

- Analyzed thermal performance data, maintenance records and system configurations to improve performance of the evaporative coolers, circulating water pumps and heat exchangers.
- Created Advanced Pattern Recognition models that monitor evaporative cooler effectiveness.
- Determined the root cause of inaccurate circulating water pump flow at the Bartow Combined Cycle plant, allowing the plant to increase the flow by over 70,000 gallons per minute.

*Bartow Combined Cycle Power Plant* Summer 2016

- Managed multiple projects to increase the reliability of plant operations, including thermal performance, systems reconfiguration and component maintenance.
- Led daily plant start-up meetings and worked closely with plant contractors.
- Gained an increased understanding of components and systems within a combined-cycle power plant through plant walk downs, thermal performance analysis and on-the-job training.

*Maintenance and Diagnostic Center – Thermal Performance Team* Summer 2015

- Built and optimized over 140 Advanced Pattern Recognition models.
- Analyzed the condenser fouling issues at the Hines CC Complex and presented possible solutions.
- Attained a basic understanding of the components and systems in combined cycle power plants.

**Gatorloop (SpaceX Hyperloop Pod Competition Team)**, University of Florida

**Corporate Relations Director**

Spring 2016

**Mechanical Systems Lead**

Fall 2015

- Led a team of over 30 Mechanical Engineering students during the design phase of the competition, including the oversight of the compressor, air bearings and pod mechanics sub-teams.
- Lead writer of the Mechanical Systems section of the final design report.
- Presented to SpaceX, Tesla and faculty engineers during the design competition.
- Led a team of engineering and business students to obtain funding and corporate sponsors.

**New Century Mortgage Corporation**, Tampa, FL

**Area Sales Manager**

2006-2007

**Account Executive**

2005-2006

- Managed and trained Junior Account Executives on product guidelines and sales techniques.
- Trained Mortgage Brokers on loan products, sales techniques and web-based operating system.
- Maintained a \$20 million loan portfolio monthly.

## HONORS & DISTINCTIONS

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- **Senior Design Team Lead:** Led a team of 10 students to a top three (15 teams) design - 2017
- **Gatorloop:** One of only 22 (out of 100) teams initially chosen to move forward to build and test
- **New Century Mortgage Corporation:** President's Club Award Winner 2006
- **New Century Mortgage Corporation:** #2 in Regional Sales 2005-2007
- **Oak Street Mortgage:** All Star Conference Award Winner 2004

## CERTIFICATIONS

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- **Certified SOLIDWORKS Associate (CSWA)**
- **University of Florida Engineering Leadership Certificate**