Flannan Hehir

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Education

University of Notre Dame, Notre Dame, IN   May 2018
    Bachelor of Science
    Major: Mechanical Engineering
    Minor: Computational Engineering
    Dean's List Fall 2014

Experience

General Electric Power   Atlanta, GA
Technical EID Intern   Summer 2017
- Details withdrawn for confidentiality.

Trinity College Dublin   Dublin, Ireland
Research Assistant   Summer 2016
- Details withdrawn for confidentiality.

Skae Power Solutions, LLC   Sparkill, NY
Engineering Intern   Summer 2015
- Details withdrawn for confidentiality.

Projects

***Energiewende* Research Report**, Germany   Spring 2017
Author and Principal Investigator
- Awarded research grant by The Nanovic Institute of European Studies to conduct a series of interviews and site tours across Germany focused on the nation's vast energy infrastructure revolution.
- Wrote article published on the Nanovic Institute's website discussing an interdisciplinary array of topics including grid interconnectivity, power storage, fundamental renewable technology, and economic/political impacts.

Engineering Projects, Notre Dame, IN   Fall 2014 – Spring 2017
Team Member
- Designed, built, and programmed a robotic dancing penguin toy for 5th grade students using LabVIEW software.
- Built a pressurized spud launcher using PVC parts to propel a potato at specific targets. Modelled the projection using a MATLAB programmed GUI to accurately predict launch distances given the barrel angle and air pressure.
- Designed and implemented a lead-lag control system to a motorized inverted pendulum using a microcontroller in order to specify certain angular positions.
- Designed counter-flow heat exchanger to increase the thermal efficiency of an internal combustion engine.

Activities

- *Member,* **American Society of Mechanical Engineers**
- *Race Coordinator,* **Running Club of Notre Dame**
- *Volunteer,* **Dream Teams**

Skills

- MATLAB, C/C++, Arduino, AutoCAD, Inventor, Creo, Microsoft Office, Fortran, NEURON, UNIX/DOS, LaTeX, HTML/CSS