**Flannan Hehir**

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**Education**

**University of Notre Dame,** Notre Dame, INMay 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* Details withdrawn for confidentiality.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* Details withdrawn for confidentiality.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* Details withdrawn for confidentiality.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