

Flannan Hehir

fhehir@nd.edu | 845.499.0571 | Campus Address: 1855 Vaness St, South Bend, IN 46637 | Website: flannan.me

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- Details withdrawn for confidentiality.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- Details withdrawn for confidentiality.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- Details withdrawn for confidentiality.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