

KASEY WILDCAT

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Education

University of New Hampshire
B.S. in Mechanical Engineering

Durham, NH
Expected May 2017

Related Coursework

- Fluid Dynamics
- Dynamics
- Thermal System Analysis and Design
- Heat Transfer
- Machine Design
- Experimental Measurement & Modeling
- Systems Modeling, Simulation, & Control

Skills

Computer: Python, MATLAB
Software: Solidworks, Microsoft Office Suite, AutoCAD

Projects

Mechanical Engineering Capstone Project

Spacecraft Dynamics, Modeling, and Control

Durham, NH
September 2016 – Present

- Research general satellite attitude and orbit determination and control
- Develop strategies for extra-terrestrial surface navigation, hazardous asteroid mitigation, and flexible spacecraft dynamics and modeling
- Create experimental test beds for satellite prototypes
- Share research with NASA Goddard Space Flight Center, NH Space Grant Consortium, and UNH Hamel Center for Undergraduate Research
- Work with a group of 4 other mechanical engineering and electrical engineering students to generate the most optimal solutions

Dynamics Course

Dynamics

Durham, NH
September 2015 – December 2015

- Collaborated with 4-6 other students to design and fabricate a Rube Goldberg machine
- Designed the system to finish 4 steps of mechanical energy transformation
- Calculated the characteristics of motion of particles and rigid bodies
- Presented and demonstrated machine in front of class of 80+ students

Experience

Physical Plant Department, Colby College

Engineering Internship

Waterville, ME
May 2015 – August 2016

- Located and recorded locations of underground utilities for stormwater drainage replacement
- Gathered data to develop plans to separate steam lines from heat lines
- Utilized Microstation to create schematic drawings of Steam Plant piping to be used during lockout safety procedures for equipment undergoing shutdowns
- Assisted in various projects including an underground steam line and photography studio ventilation

Campus Leadership and Involvement

American Society of Mechanical Engineers

Student President

Durham, NH
September 2013 – Present

- Engage with community to encourage student involvement in STEM related fields, especially mechanical engineering
- Attend conferences each semester with other young professionals to gain insight into professional life
- Fundraise to support outreach events
- Invite professionals from local companies to hold resume, networking, and linked-in workshops