Kevin Ferguson

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Objective

- Obtain an full-time mechanical engineering position that allows me to apply my skills in mathematics to solve real-world problems

Education

BACHELOR'S OF SCIENCE | MAY 2020 | ROSE-HULMAN INSTITUTE OF TECHNOLOGY

- Majors: Mechanical Engineering, Mathematics; Minor: Spanish
- Cumulative GPA: 4.0/4.0
- Related coursework: Statics, Mechanical Systems, Electrical Systems, Fluid Systems, Control Systems, Thermodynamics, Heat Transfer, Design for Manufacturing, Materials Engineering, Computational Science, Boundary Value Problems, Vector Calculus, Numerical Analysis, Machine Component Design

Skills & Abilities

SOFTWARE

- Part modeling and drawing creation in SolidWorks
- Simulation, optimization, and computation in MATLAB and Simulink

LANGUAGE

- Professional working proficiency in Spanish

Experience

ROSE-HULMAN UNDERGRADUATE RESEARCH FELLOWSHIP | JANUARY 2019

- Developed a mathematical model to characterize the flow through each valve within a large array of valves
- Designed and manufactured a two-by-two valve array, and verified the validity of the mathematical model by performing multiple experiments
- Programmed four stepper motors in MATLAB and Simulink to simultaneously control the inputs of the valve array

CAMERA MOUNT DESIGN PROJECT | JANUARY 2019

- Collaborated to design a camera mount suitable for examining glucose test strips
- Modeled a part capable of being cut from sheet metal in SolidWorks

SOPHOMORE RESIDENT TUTOR | ROSE-HULMAN LEARNING CENTER | AUGUST 2018 – CURRENT

- Tutored sophomore students in their challenging engineering and math courses
- Hosted review sessions for upcoming midterms and final exams
- Communicated with professors to stay up-to-date on course topics

DOG GATE DESIGN PROJECT | MARCH – MAY 2017

- Led a team in innovating the standard dog gate to be more affordable and effective
- Created a prototype of the product using machine shop equipment

Honors

- Heminway Scholar – awarded to the students with the highest academic standing after one year of attendance
- Paul N. Bogart Scholar – awarded to the students with the highest academic standing after two years of attendance