Kendall Shaw

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Objective:

Looking for an internship related to robotics or mechanical/electrical engineering.

Education:

University of Edinburgh
MEng in Electrical and Mechanical Engineering
Class of 2024

Relevant Coursework:

- Mechanical Engineering 1
- Electrical Engineering 1
- Engineering Software 2 (C/C++)
- Engineering Design
- Engineering Mathematics 1a/b
- AP BC Calculus

Skills:

- CAD (SolidWorks, Autodesk Fusion 360)
- C/C++
- Machining (Manual/CNC mill, lathe, drill press, band saw, chop saw, etc)
- Wiring (robot, EUFS AI vehicles)
- Pneumatics
- MATLAB
- Fluent Japanese speaker and writer

Awards/Qualifications:

- Japanese-Language Proficiency Test N1, signifying native speaker proficiency
- President's Award Gold for 100+ volunteer hours

Experience:

Vehicle Dynamics Engineer at Formula AI Team

September 2019-present Edinburgh University

- World championship team of the 2018 and 2019 Formula Student's AI self-driving racing competition
- In charge of redesigning vehicle steering, Lidar mount, firewall, HVD (High Voltage Discharge), motor mount, and cooling
- Used OpenCV to calibrate Lidar for the vibration reduced with the new Lidar mount I created
- Improved the thermal transfer within battery container of tractive system and weight distribution to lower center of mass
- Created a brand-new firewall and tractive system container to improve the fire and electrical safety of the vehicle

Freelance Translation

January 2018-present

- Translating novels, textbooks, articles, and websites between Japanese and English
- Past work includes high school calculus textbooks, news articles following the IR casino legalization in Japan, and website for a watch retailer

Research Assistant at SJSU

June 2018 San Jose State University

- Assisted in research run by Professor Freidoon Barez and his research group regarding thermodynamics and smart home insulation
- Ran experiments and collected data on heat transfer and temperatures within smart homes using combinations of different insulations and different glass windows in order to find the most optimal combination for houses in California
- Set up controlled environment within smart home unit, compiled and analyzed data using Excel spreadsheet

Robotics Camp Instructor

July-August 2016, 2017 Palo Alto High School

- Led camp organization and created lesson plans
- Instructed middle school students through designing and creating KOP "kit of parts" robot

Palo Alto High School Robotics Team

August 2015-May 2019

- Member of Build Team, designed and fabricated robots; used SolidWorks to design and run safety simulations, and fabricate using machines such as CNC mills, laser cutters, and 3D printers
- 2018-2019 Hardware Manager; responsible for overlooking designing and fabrication process of robot for the year
- 2016-2017 treasurer, was responsible for managing a $87,000 budget
- Two times FIRST FRC World Championships qualifier, 2017 semifinalist