

# 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)
- 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

## Work and Volunteer Experience:

### 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
- Taught students to use machines such as mill, hand drill, drill press, band saw, chop saw, and hack saw
- Stressed importance of safety

## Clubs and Extracurriculars:

### University of Edinburgh EUFS AI Team

*September 2019-present*

- Member of vehicle dynamics sub-team of the Edinburgh University Formula Student's AI Team, winning team of the 2018 and 2019 Formula Student's AI racing competition
- In charge of redesigning vehicle steering, firewall, motor mount, and cooling
- Attempting to resolve issue of the vehicle understeering from previous year and transforming vehicle to be aligned with competition regulations for EVs, as we aim to transition from an ICE vehicle

### Palo Alto High School Robotics Team

*August 2015-May 2019*

- Member of Build Team, responsible for designing and fabricating competition, practice, and show robots; using SolidWorks to design and run safety simulations, and fabricate using machines such as CNC mills and routers, 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