

Blake Sander

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Education

UNIVERSITY OF WASHINGTON

Bachelors of Science in Mechanical Engineering
Minor: Mathematics

Graduation: June 2017
Cumulative GPA: 3.63

Experience

RESEARCH ASSISTANT | UNIVERSITY OF WASHINGTON

SEATTLE, WA | APRIL 2017-JULY 2017

- Designed a new medical device to be used during surgery as a force sensor to determine level of paralysis
- 3D printed parts for device for rapid prototyping purposes
- Communicated with advisors determining shortcomings of device and brainstormed how to fix them
- Iterated designs for functionality, generated Bill of Materials, and optimized tolerances

ENGINEERING INNOVATION IN MEDICINE | UNIVERSITY OF WASHINGTON

SEATTLE, WA | SEPTEMBER 2016-JUNE 2016

- Collaborated with a group of five students to design a new type of mouth guard that is comfortable and adaptable for children undergoing orthodontic work
- Interact with clinicians, patients, and other stakeholders to develop a product
- Designed a working prototype to be used for testing
- Debugged original prototypes and strategically developed unique solutions for ideal user experience

MECHANICAL DESIGN INTERNSHIP | CERTAIN STANDARD

SEATTLE, WA | FEBRUARY 2017-MAY 2017

- Analyzed product design and modified to create easily manufactured prototypes
- Interacted with employer to accomplish design specifications of final product
- Rapid-manufacturing of product using 3D printing

HYPERLOOP TEAM | UNIVERSITY OF WASHINGTON

SEATTLE, WA | FEBRUARY 2016 - SEPTEMBER 2016

- Tested electro-magnetic rotor array for upward force and total capacity for propulsion
- Researched optimal part specifications and designed on Solidworks
- Manufactured parts using lathes, mills, 3D printing, and welding

Leadership/Community Involvement

17TH AVE HOUSE FACILITATOR | JUNE 2015 - JUNE 2017

- Leads a group of 5 students and up to 2 mentors in weekly meetings
- Assists in planning and implementation of events for 55 house members
- Participates in weekly meetings with 11 peers to discuss house goals

UW CHEER TEAM MEMBER | OCTOBER 2014 - APRIL 2016

- Participated in practices and performed at games up to seven days a week on a team of 25
- Represented the University of Washington at UCA College Nationals
- Led in crowd encouragement by stunting and organizing cheers

Skills and Related Coursework

Solidworks

Matlab

ANSYS

Java Script Programming (CSE 142)

Microsoft Office proficient

Advanced Mechanics of Materials (ME 440)

Machine Design Analysis (ME 356)

Systems Dynamics (ME 373 & ME 374)

CAD Technology (ME 480)

Finite Element Analysis (ME 478)

Composites Materials Design (ME 450)

Biomechanics of Movement (ME 412)