

Carson Jack Wynn

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EDUCATION

Brigham Young University (Bachelor's)

Major: Mechanical Engineering

Minor: Computer Science

Aug 2019 - Present

GPA: 3.75

University of Utah (Ph.D.)

Major: Robotics

Research: Control Systems and Human-Robot Interactions

Expected Start: Aug 2024

PROFESSIONAL EXPERIENCE

Los Alamos National Labs | Los Alamos, NM

Student Intern in LADDS Program

June 2024 – August 2024

Sandia Nation Labs | Albuquerque, NM

Student Intern in NOMAD Program

Jun 2023 – Aug 2023

- Worked alongside other interns to research new and innovative topics
- Used Abaqus to predict how changing the geometry of a design affects the modal response and damping properties of a new joining technology, interlocking-metasurfaces

Brigham Young University | Provo, UT

Structural Dynamics UG Research Assistant

Jun 2022 – Oct 2024

Dr. Matt Allen

- Created Hurty/Craig-Bampton models of jointed structures to speed up simulations
- Self-taught in graduate topics such as finite element model reduction, vibrations, and modal analysis
- Investigating nonlinearities in dynamic models of bolted structures
- Modeling bolted structures in Abaqus and MATLAB to compare reduced models

Brigham Young University | Provo, UT

High-Intensity Focused Ultrasound (HIFU) Research Assistant

Apr 2022 - Jul 2022

Dr. Christopher Dillon

- Produced a literature review on current HIFU vessel ablation techniques
- Filtered through programs that could effectively perform FEM analysis of HIFU

Brigham Young University | Provo, UT

TA, Grader, Leader, Tutor

Aug 2021 - Present

Leadership in a Global Context, Dynamic Systems

- Was the lead TA to two other students. Guided them with daily tasks and grading criteria
 - Facilitated student learning by leading labs and tutoring students one on one
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SKILLS

Coding Languages

- MATLAB
- Python
- C, C++, C#
- Java
- HTML, CSS, JavaScript

Software Experience

- Abaqus CAE
- Ansys
- SolidWorks
- COMSOL