

# Matt Hancock

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## EDUCATION

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### Brigham Young University

Graduation: April 2025

Bachelor of Science: Mechanical Engineering

Provo, UT

- GPA 3.96
- BYU Full Academic Scholarship (Winter 2021-Winter 2023)
- BYU Half Academic Scholarship (Fall 2023 – Winter 2024)

## PROJECTS/RESEARCH

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### BACPAC project, BABEL Group

April 2023-Present

*Undergraduate Research Assistant*

Provo, UT

- Manufactured hundreds of sensor arrays to help phenotype backpack
- Helped participants receive MRIs and perform exercises with our sensor arrays
- Collaborated with different universities to create an innovative procedure that used multiple sensor types to collect better data from patients

### SMA Ultrasound project, BYU Bioheat Transfer Lab

June 2023-Present

*Undergraduate Research Assistant*

Provo, UT

- Researched the possibility of using focused ultrasound to expand a Nitinol stent within a patient's vein and minimize damage to the surrounding tissue
- Characterized the acoustic properties of tissue substitutes (phantoms)
- Successfully obtained proof of concept by expanding a Nitinol stent within a phantom with blood mimicking fluid flowing through it

## EXPERIENCE

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### BYU Museum of Art

Spring 2021-Present

*Supervising Officer*

Provo, UT

- Oversee the training of new hires and verify that they have the needed knowledge to perform their duties
- Coordinate Training Officers so each new hire can have an experienced guard to show them around
- Interact with patrons and keep artworks protected and in proper condition

### Q&D Manufacturing

Summer 2017-Fall 2018

*Manufacturing Intern*

Hillsboro, OR

- Built infrastructure inside the building to help make processes more efficient and organized
- Assembled and tested hundreds of electronic cables and connectors
- Performed quality testing on manufactured products

## VOLUNTEER EXPERIENCE

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### Church of Jesus Christ of Latter-Day Saints

Jan 2019-Dec 2020

*Full time Missionary*

São Paulo, Brazil and Orlando, Florida

- Dedicated 2 years to learn about and serve the people of Brazil and Florida
- Became fluent in Portuguese to better connect with and serve the Brazilian people
- Served and taught in over 400 homes
- Gained experience with learning and understanding other cultures and the strengths they bring

## SKILLS/INTERESTS

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- Proficient in SolidWorks and ANSYS
- Proficient in coding in MATLAB, C++, Arduino, and C
- I have taken or am taking coursework in: CAD, Manufacturing Processes, Mechatronics, Material Science, Statistics, Thermodynamics, Fluid Mechanics, and Biomedical Engineering
- Fluent in Portuguese
- Avid Portland Trailblazers and BYU sports fan