Lincoln Wagner

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English & Mandarin Chinese

About Me

I develop medical devices for the University of Utah Center for Medical Innovation. I was hired in June 2023 as a Student Fellow. I began in this field to eventually engineer prostheses and exoskeletal technology as a career. I am majoring in Mechanical Engineering with an emphasis on Biomechanics. I subscribe to the future of organic and artificial unification.

Education

2023 - 2024 + **UNIVERSITY OF UTAH**

- Mechanical Engineering Major | ME EN 1010 and Calculus 2210
- Honors College Student
- Gen Chem 1 & Lab
- Statics 2010

2021 - 2023 **ACADEMY FOR MATH, ENGINEERING, & SCIENCE**

- Fourth Year | U of U: Physics 2210 & 2220 and Calculus 1210 & 1220
- Third Year | Honors Physics, AP Calculus, Engineering Principles, Electronics, and Robotics
- Extracurricular | FIRST Robotics {Mechanical Team Lead}

Achievements

4.00 GPA

33 ACT SUPERSCORE
{36 SCIENCE}

U OF U SUMMER RESEARCH INTERNSHIP
2022 | MICROROBOTICS LAB

AMES STERLING SCHOLAR AND REGIONAL SEMI-FINALIST
IN SKILLED & TECHNICAL SCIENCE EDUCATION

Skills

- Works well with others and finds leadership opportunities
- Diligent and takes challenges head-on
- Excellent problem solving and critical thinking skills
- Trained with workshop machines i.e. Mill, Laythe, Drill Press, Miter
- Solidworks, OnShape, and FDM, SLS, & SLA Printing
- C++, Python, and circuit design

Projects

PERSONAL WORKBENCH

| Self Managed

Four leg table structure using aluminum T-slot extrusion, 3D printed parts, and layered plywood. Modelled a design in Blender and made a BOM.

Woodworking, Metalworking

SOUND SOURCE LOCALIZATION

| Summer Research Internship

Tri-microphone array using Arduino, TDOA, cross-correlation, and audio synthesis to locate the position of a sound source using audio data.

C++, Python, Desmos

ROBOTICS

| FRC Team 3243

Fourth-Year Mechanical Team Lead: instructing and managing others, overseeing sub-assemblies.
Team interview representative for FIRST Impact Award.

ELECTROMAGNETIC LEVITAROR

| HS Junior Capstone Project

Cycling Arduino based, sustainable magnet levitator using an electromagnet and Hall Effect sensor.

C++