

# Daniel Hodgins

🏠 <https://danielhodgins.github.io/> | 📧 DanielHodgins | in daniel-hodgins-811b90270/

## Education

### University of South Alabama (USA)

Master of Science in Mathematics-Thesis Track

Mobile, AL

August 2023-present

GPA:4.0

### University of South Alabama (USA)

Bachelor of Science in Mechanical Engineering with a secondary major in Mathematics

Mobile, AL

Aug. 2019 - May 2023

Concentration in Aerospace, GPA:3.49

## Technical Skills

### Programming

Python, CircuitPython

### Drawing & Typesetting

Tiled, Microsoft Office, Google files, L<sup>A</sup>T<sub>E</sub>X, Paint 3D, OBS Studio, Astah SysML, Zoom, LibreOffice

### Languages

English (Native)

## Projects

### Remote Control Water Aircraft

Designed a low wing loading aquatic RC aircraft capable

Mobile, AL

January 2022 - April 2022

### Remote Control Luggage Aircraft

Design, Build, Fly Senior Design Team Project

Mobile, AL

August 2022 - April 2023

- two sets of interchangeable wings
- fits in a suitcase size box

### Morse Code Game

Circuit Playground Bluefruit Project

Mobile, AL

August 2021 - December 2021

- runs circuit python
- interactive teaching tool to learn Morse Code
- difficulty changes with skill of user

### Eagle Scout Project

Bookshelf for a local elementary school and a drop off box for Ronald McDonald House Mobile, AL

Semmes, AL & Mobile, AL

2018

## Awards and Honors

Spring 2023	<b>Scholarship/Contest:</b> "Chris Nash Special Award (Highest Score) "	Mobile, AL
Spring 2022	<b>Honor Society:</b> "IME Math Honor Society"	Mobile, AL
Spring 2022	<b>Honor Society:</b> "Mortar Board Senior Honor Society"	Mobile, AL
Spring 2022	<b>Scholarship:</b> "Department of Mechanical Engineering Scholarship"	Mobile, AL
Spring 2022	<b>Scholarship/Contest:</b> "Chris Nash Scholarship (Second Highest Score) "	Mobile, AL
Spring 2022	<b>Scholarship:</b> "Department of Mathematics and Statistics"	Mobile, AL
Spring 2021	<b>Scholarship/Contest:</b> "Chris Nash Scholarship (Highest Score) "	Mobile, AL
Spring 2021	<b>Scholarship:</b> "Department of Mathematics and Statistics"	Mobile, AL
Spring 2018	<b>Award/Achievement:</b> "Eagle Scout"	Mobile, AL

## Volunteer Services

### Mobicon, Coastcon, GnG Cons,...

Game Demo/Convention Volunteer

Gulf Coast

2018-Present

## Camp Make Arthritis Stop Hurting (MASH)

Camp Counselor

- Camp MASH is a camp for kids with juvenile arthritis
- 2020 was cancelled due to pandemic

*Mobile, AL*

June 2018-2019, 2021-Present

## Julia Robinson Math Festival (JRMF)

Facilitator

*Online*

March 2021-Present

## JRMF

Online Space Creator

*Online*

May 2021-December 2022

- Created and designed rooms for math festivals on Gather.Town
- Designed and implemented rook mazes, and designed other prototype mazes

## JRMF Community Math Circle

Steering Committee Member

*Online*

January 2022-Present

## Job Experience

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### Graduate Assistant

Department of Math and Statistics University of South Alabama

*Mobile, AL*

August 2023 - present

Ran recitation section for two Calculus I classes, proctor exams and quizzes, create worksheets, and tutor in Math Lab

### College Assistant

Math Corps University of South Alabama

*Mobile, AL*

May 2023 - June 2023

### Tutor

University of South Alabama College of Engineering

*Mobile, AL*

August 2022 - December 2022

Graded homework and quiz assignments for thermodynamics

### Grader

University of South Alabama College of Engineering

*Mobile, AL*

August 2021 - May 2022

Graded homework and quiz assignments for thermodynamics