

Hayden M. Webb

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Rice University, Department of Mechanical Engineering
Houston, TX

ACADEMIC TRAINING

- 2021-Present* **B.S., Rice University** (Major: Mechanical Engineering & Minor: Engineering Design) - Houston, TX
- 2017-2021* **Conroe High School**, (Top 1%) - Conroe, TX

PROFESSIONAL EXPERIENCE

- 2023-Present* **Researcher**, Mentored Independent Project, Rice University School of Engineering - Houston, TX
Advisors: Dr. Kaiyu Hang, Dr. Shenli Yuan
- 2023* **Summer Intern**, Rice University School of Engineering - Houston, TX
- 2021-2023* **Robotics Engineer**, Independent Project, Rice University Robotics Club - Houston, TX
- 2022* **Researcher**, Mentored Independent Project, Rice University Office of Innovation - Houston, TX
Advisors: Dr. Paul Cherukuri, Grant Belton
- 2022* **Extern**, Blue Origin - Houston, TX
- 2021-2022* **Project Design Engineer**, Oshman Engineering Design Kitchen, Houston, TX
Advisors: Deirdre Hunter & Robert Read
- 2019-2020* **Intern**, NASA (Highschool Aerospace Scholar) - Houston, TX

HONORS AND AWARDS

- 2021* AP Scholar with Distinction - College Board

LEADERSHIP EXPERIENCE

- May 2023 - Present* **Co-President, Rice University Robotics Club**
Managed 100+ students and 10+ teams on the development of their projects & Assisted in collecting \$5000+ through Funds & Fellowships
- Fall 2022 - May 2023* **Manufacturing Team Lead, Rice University Robotics Club**
Led 10+ students on the mechanical design & creation of an overactuated arm device capable of mirroring a user's movements
- 2021* **Doerr Institute for New Leaders Program, Rice University**
- 2020-2021* **President, National English Honor Society, Conroe High School**
Promoted literacy in surrounding schools through reading programs and community events for elementary students
- 2019-2020* **Team Lead**, NASA (Highschool Aerospace Scholar)

Led 20+ students on the mechanical design of a Lunar Lander

TEACHING EXPERIENCE

Spring 2024 - **Teaching Assistant, Rice University**

Present Assisted with teaching & grading in MECH 310 - Rigid Body Dynamics

Fall 2022 - **Teaching Assistant, Rice University**

Present Assisted undergraduate & graduate students with team projects and individual competencies in ENGI 210 - Prototyping & Fabrication

Summer 2022 **IBB Summer Academy Assistant, Rice University**

Assisted with a week-long course for highschool students on engineering design tools, devices, and processes

Fall 2020 - **Teaching Assistant, Conroe High School**

Spring 2021 Assisted with teaching and grading for Honors Chemistry.

Fall 2019 - **Tutor, Conroe High School**

Spring 2021 Head lead for tutoring for AP Fellow Program for 9th-12th Grade

SERVICE

UNIVERSITY SERVICE

RICE UNIVERSITY

2021-2022 OEDK New Student Ambassador

COMMUNITY SERVICE

2020-2021 National Math Honor Society (50+ Hours)

2019-2021 National English Honor Society (150+ Hours)

2019-2021 National Honor Society (50+ Hours)

2015-2021 CISD Police Jr. Leadership (1000+ Hours)

2017-2020 Interact Club (100+ Hours)

PROFESSIONAL SOCIETIES

American Society for Mechanical Engineers (ASME)

ADDITIONAL ACTIVITIES

2017-2019 Two-Time Region Orchestra, Texas

2017 All-State Choir, Texas