Hayden M. Webb

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LinkedIn | Portfolio
832.480.2225
Rice University,
Department of Computer Science
Houston, TX

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EDUCATION		
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	Undergraduate Researcher, Rice University George R. Brown School of	

2023-Present	Undergraduate Researcher, Rice University George R. Brown School of
	Engineering - Houston, TX
	Advisors: Dr. Kaiyu Hang
	Projects: Wearable Roller Ring & Versatile Roller Glove
2021-2023	Robotics Engineer, Rice University Robotics Club - Houston, TX
2022	Undergraduate Researcher, Mentored Independent Project, Rice University
	Office of Innovation - Houston, TX
	Advisors: Dr. Paul Cherukuri, Grant Belton
	Project: Smart Helmet Material Fabrication
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 (High School Aerospace Scholar) - Houston, TX

LEADERSHIP EXPERIENCE

May 2023 -	President, Rice University Robotics Club
May 2024	Managed 100+ students and 10+ teams on the development of their
	projects & Assisted in collecting \$5000+ through Funds & Fellowships
Fall 2022 -	Manufacturing Team Lead, Rice University Robotics Club
May 2023	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

HONORS AND AWARDS

PUBLICATIONS

Wearable Roller Rings to Enable Robot Dexterous In-Hand Manipulation through Active Surface **H. Webb,** P. Changrunmaneekul., S, Yuan, and K. Hang, *arXiv* 2403.13132, 2024

PRESENTATIONS

2024

H. Webb, P. Changrunmaneekul., S, Yuan, and K. Hang; Wearable Roller Rings to Enable Robot Dexterous In-Hand Manipulation through Active Surfaces. Texas Regional Robotics Symposium (TEROS) [Poster]

TEACHING EXPERIENCE

Fall 2022 -	Teaching Assistant, Rice University
Present	Assisted undergraduate & graduate students with team projects and individual
	competencies through led instruction in ENGI 210 - Prototyping & Fabrication
Fall 2024	Teaching Assistant, Rice University
	Assisted with teaching & grading in MECH 315- Stress Analysis
Spring 2024	Teaching Assistant, Rice University
	Assisted with teaching & grading in MECH 310 - Rigid Body Dynamics
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 AP Fellow Program to tutor 9th-12th Grade students

COMMUNITY SERVICE

RICE UNIVERSITY

2021-2022 OEDK New Student Ambassador

CONROE HIGH SCHOOL

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)