

Haydn Howe

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Education

Rice University, Houston, TX

Bachelor of Science, Civil Engineering

GPA: 3.75

Expected May 2024

Relevant Coursework

Mechanics of Solids	Concrete & Steel Laboratory	Engineering Mechanics
Strength of Materials Lab	Soil Mechanics and Foundations	Principles of Envi. Engineering
Structural Analysis & Modeling	Soil Mechanics Laboratory	Urban Water Systems
Reinforced Concrete	Applied Fluid Mechanics	Hydrology & Water Resource Eng.

Relevant Projects

Rice University, Houston, TX

Concrete and Steel Design

January 2022 – Present

- Fabricated concrete beams and cylinders for stress-strain testing and assessed torsional properties of pre-fabricated steel rods to produce laboratory reports with a small team of 5 members
- Reported relevant statistics using MS Word, Excel, and PowerPoint to deliver a presentation that offered an audience of 18 engineers the maximum strength metrics of the materials that were quality tested

Rice University, Houston, TX

3D-Printed Bridge Integrity Competition

August 2021 – December 2021

- Collaborated with a team to idealize the structure of a truss in order to streamline the design process
- Delegated the drawing of each unique truss element's design in SolidWorks among team members, reducing the design time by 75%
- Fabricated a truss from 3D-printed elements for testing, resulting in the team receiving a 1st place award for constructing the bridge with the most integrity

Work Experience

Mathnasium, Houston, TX

Math Instructor/Tutor

October 2022 – Present

Rice University, Houston, TX

Office Assistant

August 2020 – May 2021

- Upgraded mail sorting system to notify students of delivered packages, decreasing the maximum volume of mail in the mailroom by 20%
- Renovated 2 storage systems on campus to decrease clutter and implement categorical sorting for use by student leaders and university faculty
- Reduced the volume of misdelivered mail by implementing a system which directed such mail to the appropriate destination or destroyed mail at the request of the recipient, achieving a delivery rate close to 100%

Leadership & Community Involvement

Rice University, Houston, TX

Laundry Room Representative

August 2020 – Present

- Promoted to Head of Committee August 2022
- Maintained the laundry room facilities at Edgar Odell Lovett College (residential community) by communicating with the housing and dining department to keep all machines running
- Communicated with other student leaders on campus to develop intra-committee projects that better the quality of life for both the students at Rice University and the personnel in the housing and dining department
- Coordinated bimonthly donation drives of unclaimed laundry to eliminate clutter in the laundry room and give back to the community in the medical center in Houston, providing an estimated 220 pounds of clothes to those in need
- Implemented a labeling system for laundry room machines to allow students to track their laundry, decreasing the frequency of lost, trashed, and stalled laundry

University of Texas at San Antonio, San Antonio, TX

Japanese Language Assistant

May 2022

- Guided Japanese language students through various end-of-year activities, helping students stay focused
- Familiarized students with Japanese cultural customs and games to better engage them in class material
- Collaborated with Japanese language professors to share culture from Texas with Japanese citizens over Zoom, connecting communities in Houston, San Antonio, and Kagawa

Skills & Achievements

Spanish – Basic Proficiency

Japanese – Advanced Proficiency

Proficiency in AutoCAD, SolidWorks, SAP2000 23

Chi Epsilon (Member since October 2022)