

Thomas Hernandez

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EDUCATION

University of Rhode Island, Kingston, RI

May 2023

Bachelor of Science in Mechanical Engineering, Bachelor of Arts in Spanish
International Engineering Program (IEP)

Study Abroad, University of Barcelona, Barcelona, Spain

July 2022 - May 2023

RELEVANT COURSEWORK

Design of Machinery, Engineering Statistics and Quality Control, Entrepreneurship Lab, Fuel Cell Systems, Mechanical Systems Experimentation, Fluid Mechanics, System Dynamics, Thermodynamics

TECHNICAL SKILLS

MATLAB, Mathematica, SolidWorks, Minitab, ANSYS, Adams, Aspen Plus, Mathcad, JAVA, Python, Autodesk Inventor, Visual Basic, HTML, Microsoft Excel, Microsoft Office, Zoom, Google Workspace

ENGINEERING EXPERIENCE

New England Engineering Corporation, Boston, MA

May 2022 - Present

Student Technical Assistant, Materials Engineering Division

- Verify alloy and specification selection; evaluate material non-conformances
- Test materials for mechanical properties, examine metals, and report structural deficiencies

Zeus Manufacturing, Providence, RI

May - August 2021

Engineering Intern

- Conducted line trials to determine plant capability and made recommendations for noise mitigation
- Created and implemented management system for managing scrap to reduce weekly accumulation by 25%
- Completed all assignments three weeks ahead of schedule while developing effective project management skills

PROJECTS

Suitcase with Vacuum Pump

January - March 2022

- Developed and built suitcase with vacuum pump that removed excess air to increase packing capacity by over 50%

Swinging Gripper

September - December 2021

- Led a team of five to create and operate a robotic gripper that used a small motor torque to grip and move a 3-pound sphere through a full 360° then place on independent support mechanism
- Constructed a 3D representation of the gripper in SolidWorks and ran successful stress stimulation on model

LEADERSHIP EXPERIENCE

Resident Academic Mentor, University of Rhode Island, Kingston, RI

August 2021 - Present

- Provide guidance and support to over 300 residents to facilitate successful academic and social transitions to college
- Create and lead programs related to time management, study skills, group dynamics, and career planning

Member and Membership Chair (2021-2022), Pi Kappa Alpha, Phi Sigma Chapter, Kingston, RI

September 2020 - Present

- Recruited and initiated 125 members, which was the largest new member class in chapter history
- Managed program that doubled new member philanthropic funds raised to \$16,000 for Habitat for Humanity

Supplemental Instruction Leader – Chemistry, University of Rhode Island, Kingston, RI

January 2020 - May 2022

- Independently hosted two 90-minute study sessions per week of groups of 10-30 students
- Created lesson plans, organized study groups, facilitated group activities, and supported course instructor

ACTIVITIES AND AWARDS

Tau Beta Pi (National Engineering Honor Society), Member

April 2021 - Present

American Society of Mechanical Engineers (ASME), Member, 2019 Freshman Excellence Award

January 2019 - Present

OTHER WORK EXPERIENCE

Ocean Cove Bistro, Newport, RI

October 2017 - April 2021

Server and Trainer

- Trained new staff in the areas of restaurant operations, customer service, menu offerings, and staff policies
- Developed customer service, critical thinking, problem-solving, communications, and time management skills

LANGUAGE SKILLS

Fluent in Spanish (written and oral)