

HUDSON DEPPEN

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EDUCATION

University of Central Florida

Bachelor of Science in Mechanical Engineering

Orlando, FL

July 2027

RELATED EXPERIENCE

BellaMia Technologies, Inc., Altamonte, FL

June 2023–Present

Mechanical Engineer Intern

- Collaborate with four R&D engineers on structural and thermal subsystem design, supporting prototype development through analysis, fabrication, and testing.
- Create detailed CAD models and technical drawings in SolidWorks.
- Fabricate prototype components using hands-on machine equipment.
- Maintain specification and test documentation for quality, verification, and compliance.

Sea Energy Technologies LLC

Oct 2025–Present

CTO (Early-Stage Startup)

- Co-inventor on provisional patent for modular ocean-current energy generation system.
- Supporting early-stage feasibility analysis and conceptual mechanical design.

LEADERSHIP EXPERIENCE

Wondermade, Sanford, FL

June 2018–July 2023

Production Leader & Customer Service

- Supervised product production while also aiding the shipping department.
- Recruited two employees and provided training to 9 new team members, exceeding managerial expectations and resulting in an 80% boost in production output.

City of Sanford, Sanford, FL

March 2022–June 2022

Communication Office Intern

- Collaborated with multiple departments to make the city's resources more accessible to the public during the COVID-19 response.

CERTIFICATIONS & SKILLS

- Certified SolidWorks Professional (CSWP) – including Drawing Tools and Associate.
- Proficient in Fusion 360, Excel, and ANSYS Fluent.

PROJECTS

Solar Electric Vehicle Optimization Research

Oct 2025–Present

- Leading an undergraduate research project, coordinating team efforts to conduct ANSYS Fluent simulations and wind tunnel validation testing on consumer-inspired solar vehicles.
- Awarded 3rd Place (Audience Choice), Amy Zeh Showcase; selected to present at 2026 Florida Undergraduate Research Conference (FURC) and UCF Student Scholar Symposium.

Hydrodynamic Tunnel Development

Nov 2025–Present

- Collaborating with a team to design a compact, hydrodynamic (water) tunnel intended as a commercial aerodynamic testing product for universities, research labs, and hobbyists.
- Performing mechanical design, BOM development, and component risk analysis, with planned prototype assembly, testing, and validation.