

Harrison Paige
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Villanova University - '20
Mechanical Engineering, B.S.

Technical Skills & Experience

Capstone Design Project - Received ASME Award & Grant

Led team to design remote water quality management system for existing wells in Madagascar. Headed conceptualization/planning, drafting/CAD, prototyping, rendering.

Airfoil Design, Validation & Analysis

Designed and analyzed various airfoils w/complex geometry in Solidworks FlowSim/ANSYS Fluent. Performed CFD validation across various situations/mediums/AoAs. Have created appealing live renders/demonstrations of these simulations.

MATLAB Design & Analysis

Used MATLAB to perform Orbital Equation analysis. Created MATLAB App for classmates to easily and repeatedly execute and visualize orbital MATLAB code across various situations.

Failure Analysis, Redesign, Prototyping & Production

Modeled, redesigned and manufactured failure-prone parts and assemblies of autonomous drones using Solidworks. Redesigned parts in suitable alloys, sourced metal 3D printers. Sufficient supply chain and manufacturing expertise.

Other Skills: MATLAB, ArcGIS, Parametric Design, Solidworks, ANSYS: Fluent and Topology Optimization, Python, Autodesk Inventor, workable Autodesk Maya & 3DS Max, Maple, Adobe Photoshop, Adobe Illustrator, Microsoft Word, Excel, PowerPoint, Google Application Suite, Microsoft Project

Selected Previous Employment & Relevant Experience

U.S. Spars, Lead Engineer (2020 - Present) - Gainesville, FL

Technical Drawings, CAD Modeling, Manufacturing, Project Engineering & Management

Villanova University TechZone (2015-2020)

Technical consulting, hardware and software computer repairs

Great Harbor Yacht Club (2016-2020) – Nantucket, MA

420 Junior Program Head Instructor

Adult Program Race Coach

Technical Rigging and Repairs

Private Sailing & Lessons

Offshore Sailboat Deliveries (2014-Present)

Thousands of miles logged, proficient in offshore sailing and repairs

The Boat Locker – (2014) – Bridgeport, CT

Boat Repairs/Deliveries, Sales Experience

Previous Education

St. George's School '15 – Newport, Rhode Island

Service

Judge, MATE PA Underwater Robotics Competition

Volunteer, P.A.L.S – Patient Air Lift Services

Engineering Tutor, Wyzant - All Reviews 5/5 Stars

Technical Consultant/Volunteer, Homes for the Brave

Head Coach, Villanova University Sailing Team