

Benjamin Amsterdam

(315) 559-9387 ben4amsterdam@gmail.com

Technical Skills and Certifications

SolidWorks, AutoCad, Inventor, Fusion 360, Microsoft Office, PTC Creo, ANSYS, Rapid Prototyping, CNC Machining, Finite Element Analysis, Sheet Metal Design, Design for Manufacture

Lean Six Sigma Green Belt, USCG Capitan of vessels up to 100 Tons, Autodesk Certified Associate in CAD for Mechanical Design

Work Experience

Marathon Boat Group

Manufacturing/Design Engineer

Marathon, New York

July 2020 – Present

- Led engineering in the design, manufacture, and launch of the new Luxury Vanderbilt Pontoon line from prototype stage to production with the introduction of a new model.
- Redesigned entire aluminum boat line to meet updated standards set by the United States Coast Guard to meet safety regulations for flotation and capacity
- Assisted in supply chain management to meet production timelines of three separate manufacturing lines.
- Worked with fiberglass, rotationally molded, upholstery, vacuum formed plastic and metalworking suppliers to design and implement new features to ensure ease of manufacturability while maintaining design aspects.
- Led the design and engineering of new parts and features for in house manufacture utilizing finite element analysis, CNC machining, welding, and other metalworking.
- Met with dealers and consumers to understand feedback on quality, design, and performance to then implement model year changes.

University of Miami, Miller School of Medicine

Volunteer Research Assistant

Miami, Florida

August 2018 – May 2019

- Volunteered at the Oncology Robotics Laboratory with the test and development of a new prototype medical phantom to aid in the training of medical students.
- Utilized SolidWorks and 3D Printing with Sprutcam and CNC machining to develop an affordable medical phantom that could be manufactured easily.
- Developed new models using plastics, silicon, gelatin, and latex to perform tests with the Da Vinci surgical robot.

Filtertech

Mechanical Engineering Intern

Manlius, New York

June 2017- August 2017

- Created and modified standard drawings for parts to maximize future efficiency
- Transferred 300+ physical blueprints into usable drawings in Autodesk Inventor and AutoCad.
- Assisted engineers with various projects on the design and fabrication of industrial water filters.

Education

University of Miami

Bachelor of Science in Mechanical Engineering

Coral Gables, Florida

May 2020