



Matthew Seganti



Associate Engineer

Matthew is an Associate Engineer at Harris Energy Solutions with experience in data collection and analysis. He is currently pursuing a Bachelor's degree in Mechanical Engineering from SUNY Maritime College.

Matthew is excited to use his developed knowledge of engineering principles and combine them with experience in the energy efficiency sector.

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Education

SUNY Maritime College, Bronx, NY

September 2020-Present

Bachelor of Engineering, Mechanical Engineering I Expected: Spring 2023

Nassau Community College, Garden City, NY

September 2019-May 2020

University At Buffalo, Buffalo, NY

Sept 2017-May 2019

Relevant Experience

Work Experience

Harris Energy Solutions

May 2022-Present

- Performed functional testing on absorption chillers
- Wrote pre-functional and functional check sheets for multiple HVAC systems
- Performed QA/QC inspections
- Performed various building infiltration tests

Projects/Extracurricular

- Autonomous Hydrology Craft
 - Designing an autonomous boat that collects water samples and maps water quality on a grid with my professor where I am designing parts using Autodesk Inventor and designing aspects of the power system.
- MATE ROV
 - Designing an ROV that performs various underwater tasks including manipulating PVC pipes through obstacles, untangling objects from a submerged net, lifting objects off the floor of the pool and placing them on the pool deck out of the water
- MultiGP Racing Drones
 - Building model aircraft including racing drones where I build high performance remotely controlled aircraft which includes programming flight control boards, grounding electrical systems, and building and maintaining mechanical components.
- Leisure Design Projects
 - Designing practical objects to use in daily life that can be printed on a 3D printers, including bench micrometers, mechanical clocks, and an array of watchmaking tools to bring more inexpensive options for new hobbyists

Skills

- Physics I, II, Statistics, Circuit Analysis, Strength of Materials, Thermodynamics, Fluid Kinematics, Heat Transfer, Mechanical Engineering Design I, II, Marine Engineering Design, and Marine Electrical Systems.
- Technical Writing for Engineers, Microeconomics, Macroeconomics, Engineering Economics
- Software Proficiencies:
 - Matlab
 - AutoCAD
 - Rhinoceros 7
 - Inventor
 - Helioscope
 - Microsoft Excel, Word, PowerPoint