

Stephen J. Martino

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Education

- **Siena College** **Loudonville, NY**
B.S. Applied Physics GPA: 3.50 / 4.0 *Expected May 2024*
- **Clarkson University** **Schenectady, NY**
M.S. Mechanical Engineering via 4-1 Program *Expected May 2025*

Experience

- **Centrotherm** **Albany, NY**
Mechanical Engineering R&D Intern *May 2023 - August 2023*
 - Designed a 6-feeder manifold for an OEM to integrate into their boiler cabinets, optimizing space, efficiency and functionality
 - Constructed a prototype of the manifold, utilizing CAD assembly and subsequently conducting testing to validate its performance
 - Engineered a customized jig for consistent and reproducible results in manufacturing processes, streamlining production efficiency
 - Developed work instructions to guide the production team in mass producing the manifold, adhering to quality standards
 - Generated technical drawings and work instructions, maintaining accurate documentation for production and assembly processes
 - Leveraged advanced 3 and 5-axis CNC machinery to craft intricate parts for jigs and achieve precision cutting of profiles in pipes
 - 3D printed jigs for polypropylene pipe securing and cutting, improving precision
- **FuzeHub** **Albany, NY**
Solutions Program Intern *June 2022 - October 2022*
 - Led 3D modeling of a product for a company-wide event, overseeing the entire process from inception to mass production
 - Automated existing processes, significantly enhancing data acquisition efficiency for improved startup-to-manufacturer matching
 - Participated in client assessment calls, collaborating with colleagues to identify optimal matches between clients and manufacturers
 - Conducted on-site visits to local manufacturers, gaining valuable insight into their operations, facilities, and capabilities
- **Siena College Physics and Engineering Department** **Loudonville, NY**
Introduction to Engineering TA *January 2022 - Present*
 - Collaborate with the professor to plan & deliver engaging workshops, ensuring students grasp fundamental engineering principles
 - Conduct hands-on lab sessions, providing step-by-step guidance & support to students as they work through engineering projects
 - Demonstrate the safe and effective use of 3D printers, laser engravers, and saws, emphasizing best practices and techniques*Director of Siena College 3D Printing & Laser Engraving Lab* *September 2021 - Present*
 - Oversee the operations of the 3D printing and laser engraving lab, ensuring equipment maintenance and functionality
 - Diagnose and resolve technical issues with printers and laser engravers, employing advanced troubleshooting skills
 - Provide training to upper-class engineering students on use of 3D printing, laser engraving, and associated software
 - Develop and update standard operating procedures to ensure safe and efficient utilization of lab resources
- **Siena College VIPER Radio Telescope** **Loudonville, NY**
Physics Summer Research Scientist *May 2021 - July 2021*
 - Resolved technical limitations of a radio telescope by enabling data acquisition from the receiver on the telescope's dish
 - Constructed a control box tailored to the receiver, facilitating seamless integration with the radio telescope system
 - Implemented a series of amplifiers to convert 120-volt power to a functional 12-volt supply, ensuring optimal operation

Skills

- **Coding Languages and Software**
 - Solidworks, Autodesk Inventor, Creo, Ultimaker Cura, Autodesk Meshmixer, Java, Python, HTML, LaTeX
 - Matlab, Git, CSS, Linux, Docker, Arduino, Google Colab, Microsoft Office Suite, SketchUp, Glowforge

Projects / Personal

- **Personal Website** *2021 - Present*
 - Designed & coded a personal portfolio HTML website to showcase extensive experience in engineering & woodworking
- **3D Printing** *2017 - Present*
 - Achieved seamless integration of CAD & Meshmixer workflows for efficient model creation and modification
 - Fine-tuned print settings in Cura to ensure optimal results across a range of 3D printing projects
 - Produced a diverse range of 3D-printed objects, showcasing a proficiency in design, editing, and printing processes
- **Woodworking** *2014 - Present*
 - Established a fully-equipped workshop, curated an extensive array of tools & lumber, and executed a multitude of personal woodworking projects to hone and expand craftsmanship. Additionally, launched a small-scale woodworking venture to craft bespoke projects for discerning clientele, cultivating an entrepreneurial spirit
- **Siena College Club Baseball** *2020 - Present*
 - Provide support to upperclass players, mentor younger teammates, while taking a leadership role on the team