

# Stephen J. Martino

☎ (518) 588-9577 • ✉ smartino787@gmail.com • 🌐 www.stephenjmartino.com  
📍 stephenjmartino • in stephen-martino

## Education

- **Siena College** **Loudonville, NY**  
*B.S. Applied Physics GPA: 3.52 / 4.0* *Expected May 2024*
- **Clarkson University** **Schenectady, NY**  
*M.S. Mechanical Engineering via 4-1 Program GPA: 4.0 / 4.0* *Expected June 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 securing and cutting polypropylene pipe, improving precision and consistency among parts
- **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 - December 2023*
  - 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** **Loudonville, NY**  
*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, Arena DES
  - Matlab, LaTeX, Git, Linux, 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