

Stephen J. Martino

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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 *Expected May 2025*

Experience

- **Siena College Physics and Engineering Department** **Loudonville, NY**
Introduction to Engineering TA *January 2022 - Present*
 - Assist professor in teaching the fundamental principles of engineering.
 - Train students on using 3D printer, laser engraver, band saw, and many other tools.*Director of Siena College 3D Printing Lab* *September 2021 - Present*
 - Maintain printers, diagnose problems, research solutions, and employ troubleshooting skills to solve problems
 - Train upper class engineering students on 3D Printing and associated software
- **Siena College VIPER Radio Telescope** **Loudonville, NY**
Physics Summer Research Scientist *May 2021-July 2021*
 - Worked on a radio telescope that lacked the ability to obtain data from the receiver on the dish
 - Built a control box for the receiver of the radio telescope, connected a series of amplifiers that took 120 volt flow and transformed it to a usable 12 volts, and connected the receiver to a computer allowing users to control the telescope remotely
- **Siena College Admissions Department** **Loudonville, NY**
Content Strategist *December 2021-Present*
 - Present engineering and 3D printing concepts to accepted students and their parents.
- **Siena College School of Science Office** **Loudonville, NY**
Student Administrator *August 2020 - Present*
 - Interact on a professional level with faculty, staff, and administrators of the college.
- **Urban Industrial Design** **Albany, NY**
Carpenter *July 2020 - February 2021*
 - Machined boards of lumber to create floating shelves. Packaged them and prepared them to be shipped
 - Learned different woodworking techniques and built upon prior knowledge of other fabrication skills
 - Gained experience pertaining to workplace rules, safety, efficiency, and running a small business

Skills

- **Coding Languages and Software**
 - Java, Python, AutoCAD, Autodesk Inventor, Ultimaker Cura, Autodesk Meshmixer, HTML, LaTeX, 3D Printing
 - Solidworks, Git, CSS, Linux, Matlab, Docker, Arduino, Google Colab, Microsoft Office Suite

Projects

- **Personal Website** *2021 - Present*
 - Created a personal portfolio using HTML. Customized a template to reflect engineering and woodworking experience.
- **3D Printing** *2017-Present*
 - Used Autodesk Inventor to create 3D models, Autodesk Meshmixer to edit already existing 3D models, and Ultimaker Cura to configure different settings for how the 3D model was to be printed
 - Constructed a printer enclosure to keep constant temperature and humidity, and modified the Creality CR-10
- **Woodworking** *2014 - Present*
 - Constructed a workshop, accumulated tools and lumber, and created many personal projects such as: epoxy river coffee table, TV stand, wooden American flags, cuttings boards, stools and other furniture
 - Built projects for customers: custom office desk, drawer, and shelving unit, fireplace mantle, Adirondack chair

Selected Coursework

- Thermal Physics, Differential Equations, Materials Science, Calculus 3, Statics, Modern Physics, Electronics, Intro to Software Development, Intro to Data Analysis, Intro to Engineering