Stephen J. Martino

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Education

Siena College — **Loudonville, NY**
B.S. Applied Physics GPA: 3.66/ 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**
Director of 3D Printer Maintenance — *September 2021 - Present*
- Manage Siena College 3D printing lab, maintain printers, and train upperclassmen engineering students
- Employ many troubleshooting skills that come with 3D Printing and associated software

Siena College VIPER Radio Telescope — **Loudonville, NY**
Physics Summer Research Scientist — *May 2021-July 2021*
- Built a control box for the receiver of the radio telescope, connected a series of amplifiers that took 120 volt flow, transformed it to a usable 12 volts, and connected the receiver to a computer to allow users to control the telescope remotely
- Utilized an Arduino along with a temperature sensor and a fan to prevent overheating in the control box, and an angle sensor to identify the angle that the telescope dish is tilted at

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

Siena College School of Science Office — **Loudonville, NY**
Student Administrator — *August 2020 - Present*
- Interacted on a professional level with faculty, staff, and administrators of the college, answered phones, assisted faculty, and gained responsibility and personable skills

Skills

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

Projects

Personal Website
2021 - Present
- Created a personal portfolio website using HTML, and customized a template to reflect my experience in the engineering and woodworking field. Can be found at www.stephenjmartino.com

3D Printing
2017 - Present
- Used Autodesk Inventor to create 3D models, Autodesk Meshmixer to edit already existing 3D models, and Ultimaker Cura to employ different settings for how the 3D model was to be printed
- Constructed an enclosure to keep constant temperature and humidity during printing, and modified the Creality CR-10

Woodworking
2014 - Present
- Accumulated many tools and lumber, built a workshop out of an unused part of a basement, and created many personal projects such as: epoxy river coffee table, tv stand, wooden American flags, cuttings boards, stools and other furniture, etc.
- Built many projects for customers such as: a custom office desk, drawer, and shelving unit, fireplace mantle, etc.
- See website for project portfolio and details

Selected Coursework

- Calculus 3, Statics, Modern Physics, Electronics, Intro to Computer Science, Intro to Data Analysis, Intro to Engineering