MADELINE METZLER

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Professional Summary

A motivated and adaptable architecture student with expertise in building performance analysis and sustainable design. Highly skilled in both digital and traditional model-making techniques, with additional proficiency in web development for architectural portfolio presentation. Combines strong technical abilities with proven leadership skills and a deep appreciation for the tactile aspects of architectural design process.

Technical Skills

- **Digital Fabrication:** Expert in CNC, laser cutting, and 3D printing technologies
- **Manual Fabrication:** Advanced hand-cutting techniques, wood crafting, physical model construction and assembly
- **Design Software:** AutoCAD, Revit, Rhino, Grasshopper (visual coding), Adobe Creative Cloud Applications
- **Web Development:** HTML, CSS, JavaScript for portfolio presentation
- **Simulation & Analysis:** Climate Studio, Building performance simulations, Environmental impact analysis
- **Modeling & Prototyping:** Physical-to-digital workflow expertise, tectonic assembly methods, complex model planning and execution
- **Professional Skills:** Project collaboration, leadership, mentorship, client presentations, sustainable design integration

Project Highlights

- Developed custom portfolio website using HTML, CSS, and JavaScript to showcase architectural projects and design studio work
- Demonstrated expertise in translating design concepts into sophisticated physical models
- Proficient in planning and executing complex architectural models using both traditional and digital fabrication methods
- Strong understanding of material properties and tectonic relationships in architectural model making
- Specialized experience in detailed wood model fabrication and hand-crafted architectural elements
- Excellence in combining digital precision with handcrafted techniques for optimal results

Professional Experience

Gladwin Vaughn Architects | Historical Restoration

Architectural Intern | May 2021 - August 2021

- Utilized Revit for residential project documentation and design development
- Participated in client pitch meetings and conducted on-site building documentation, including scaling and photography of historical structures
- Contributed to architectural design and interior design pitch processes
- Successfully expanded company's social media presence and engagement

Crews Engineering

Engineering Intern to General Employee | October 2020 - May 2021

- Developed and implemented automated payroll systems using Microsoft Excel
- Modernized company's online presence and digital communications
- Assisted with on-site engineering tasks and documentation
- Created structural drawings using AutoCAD for various engineering projects
- Gained comprehensive understanding of structural construction documentation and engineering processes

Additional Professional Experience

Marymount School of New York

Athletics Coach | Present

- Develop and lead comprehensive sports training programs for middle school students
- Foster leadership skills and promote physical wellness among youth
- Demonstrate ability to manage groups, communicate effectively, and adapt teaching methods to diverse learning styles
- Model professional conduct and positive mentorship in an educational setting

Education

New York Institute of Technology (NYIT)

Bachelor of Architecture (B.Arch.) | Expected Graduation: 2026

- GPA: 3.6
- Dean's List: All semesters
- Academic Scholarship Recipient
- Specialized coursework in building performance simulation and environmental design
- Advanced studies in architectural model making and fabrication techniques

Honors and Affiliations

- 2024 SARA Student NATIONAL DESIGN AWARDS WINNER
- National Society of Leadership and Success (NSLS) Member
- Consistent Dean's List Recognition
- Academic Scholarship Recipient