

Gaetano Hamilton

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EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy, NY

August 2022 - May 2026

BS in Mechanical Engineering & Design, Innovation, and Society (Dual Major), Studio Art Minor

Dean's List: 2023, 2024; Rensselaer Medal Recipient

Relevant Coursework:

Design Innovation Studios, Engineering Graphics and CAD, Programming for Engineers, Fluid Mechanics, Electronic Instrumentation, Modeling and Control of Dynamic Systems, Inventors Studio 1 & 2, Studio Art

SKILLS

Software: Siemen's NX, SolidWorks, Fusion360, Matlab, Rhino, Blender, Unreal Engine, Python, Adobe (Ps, Id)

Communication: PowerPoint, Video Production, Technical Writing, Hand-Sketching, Photography

Prototyping: 3D Visualization, 3D Printing, Machining, Electronics, Rapid Prototyping, Woodworking

RELEVANT PROJECTS

Ornithopter Project: Team Lead | *Inventor's Studio 1*, RPI | Summer 2024

- Led a team in designing an ornithopter for crop monitoring and pest control.
- Engineered and tested a mechanical flapping mechanism.
- Communicated project challenges and solutions to stakeholders

River Rhythms: Artist/Engineer | *Design Innovation Studio A*, RPI | Summer 2024

- Conceptualized and developed a hydro-powered installation that translates water flow into sound.
- Combined art and engineering to inspire curiosity and showcase water's regenerative power.
- Received interest and guidance for future expansion through art registries and residencies.

Sustainable Sneaker Project: Product Designer | *Design Innovation Studio 3*, RPI | Fall 2023

- Collaborated to create a no-tie sneaker, enhancing accessibility for users with limited dexterity.
- Designed and 3D printed tightening mechanisms, integrated them into hand-sewn shoes.
- Conducted user testing, gathered feedback, and iterated upon the design based on results.

Accessible Jewelry Clasps: Team Lead | *Design Innovation Studio 2*, RPI | Spring 2023

- Pioneered a clasp mechanism that discreetly integrates into jewelry designs.
 - Conducted extensive user testing with 3D-printed prototypes, gathering feedback to refine design.
 - Created inclusive clasps, based on luxury brand motifs, that were both elegant and accessible.
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WORK EXPERIENCE

Tutor → **Supervisor** | *America Reads*America Counts*, Troy, NY | Fall 2022 – Present

- Managed and fostered a supportive learning environment for students, enhancing academic success.
- Collaborated with faculty to develop and deliver educational materials in a fun & interactive way.

Bike Shop Volunteer | *Troy Bike Rescue*, Troy, NY | Fall 2024

- Repaired and assessed bikes to support sustainable transportation for the local community.
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EXTRACURRICULAR ACTIVITIES

Maker | *Instructables.com Contributor* | January 2019 – Present

- Created award-winning tutorials with detailed documentation of the design and build processes.

3D Modeler | *YouTube.com Contributor* | January 2024 – Present

- Educated over 500,000 viewers in 3D modeling through engaging video tutorials.

Clock Designer and Maker | *Self-driven study* | Summer 2021 – Spring 2022

- Crafted gravity-powered wooden clock with tourbillon escapement, merging engineering with art.

Industrial Designers Society of America | *IDSa Member* | December 2024 – Present