



KATHERINE GAINES

Jewelry Designer & Engineer

CONTACT

 (859) 533-4647

 New York, NY 10032

 katherine_gaines@fitnyc.edu

 www.linkedin.com/in/katie-gaines/

EDUCATION

A.A.S in Jewelry Design

August 2024 – May 2026

- Dean's List Fall 2024, Spring 2025, Fall 2025
- Gemology, Design & Ideation, Studio Fabrication

B.S. in Bioengineering

August 2016 – May 2021

- Graduated with 3.0 GPA
- Dean's List Spring 2019, Fall 2020, Spring 2021
- Minor in Industrial Engineering

Study Abroad: Florence

May 2018

- Engineering Perspectives of the Renaissance and Sustainability (ENGR0034)
- Italian Renaissance Art History (HAA0302)
- Completed with 4.0 GPA

SKILLS

Software Programs

- CAD Programs (Creo, Autodesk, SolidWorks, Blender, Rhino), Minitab, Photoshop

Technical Skills

- 3D Printing, Laser Cutting, CNC Milling, Silicone Molding, Vacuum Forming, Metal Sawing, Metal Filling, Wax Carving, Polishing, Annealing, Forming.

Document Management Systems

- Matrix, Windchill, SAP, Microsoft Programs (Word, Excel, PowerPoint, etc.)

PROFILE

University of Pittsburgh graduate with a Bioengineering degree and an Industrial Engineering minor. Approximately five years of medical product design and development experience in various industries. Currently pursuing an associate's degree in Jewelry Design at the Fashion Institute of Technology with 7 months of experience in Jewelry Manufacturing and Sales.

EXPERIENCE

Product Development Associate, *Kaprielian Enterprises Inc.*

January 2025 – July 2025

- Collaborate with customers on custom jewelry projects and repairs, assist with design decisions and quality control.
- Coordinate with production team to organize and oversee order specifications, address CAD model troubleshooting.
- Handle shipping, delivery, and pickup of customer orders and stones.
- Manage 3D printer jobs, beginner CAD models, and laser engraving for all custom orders.

Sterile Disposables Manufacturing Engineer, *Bayer*

March 2022 – July 2024

- Write and execute production protocols to validate, verify, and implement new manufacturing and packaging processes.
- Collaborate with cross-functional teams to implement and communicate engineering changes with respect to design, quality, and manufacturing, including drawings, equipment logs, calibration data, process documentation updates, and design reviews.
- Update and maintain manufacturing equipment, including drawings, BOMs, and CAD models with proper GD&T.

Validation and Verification Technician, *Phillips*

June 2021 – March 2022

- Design and document minor electronics and cable assemblies within respiratory devices.
- Utilize various electronic test equipment to validate and verify device requirements and specifications.
- Investigate and troubleshoot electro-mechanical assemblies to the component level.
- Develop and document test processes for electronic equipment and present changes to project team.

Design Project Leader, *Swanson School of Engineering*

August 2020 – May 2021

- Worked with team members to sketch, design, and prototype low-resolution solutions for a Foregut Surgical Simulator.
- Consulted with clinicians, designers, and team members to produce an anatomically accurate 3D printed mold for the stomach and esophagus within Blender.
- Presented the final design and prototype iterations to Senior Bioengineering class at Final Design Competition.