

Victoria Laguerre

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[Online Portfolio](#)

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32 Deer Lane
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EDUCATION

Northwestern University, Evanston, IL

Bachelor of Science in Manufacturing and Design Engineering, Anticipated June 2026

Relevant Coursework: Design Thinking and Communication, Introduction to Mechanical Design and Manufacturing, Mechanics of Materials, Introduction to Industrial Design, Rendering, Introduction to Materials Science, Electronics Design, Programming in Python, Engineering Analysis.

Ward Melville High School, East Setauket, New York

High School Diploma, June 2022

Honors: National Honor Society, National French Honor Society.

SKILLS

- Computer: Proficient in Microsoft Word, Excel, PowerPoint; Autodesk AutoCAD, Fusion 360, Siemens NX, Inventor; Solidworks.
- Shop Machinery: Basic Shop Equipment: Bandsaw, Drill Press, Chop Saw, Table Saw, Metal Bender, Metal Shear.
- Machinery: Lathe, Mill, CNC Machine, Laser Cutter.
- Language: Proficient in French.

EXTRACURRICULAR/LEADERSHIP EXPERIENCE

Northwestern University Formula One Racing, Evanston, Illinois

Member, September 2022 - Present

- Devised, and tuned powertrain components of a Formula One racing car intended for annual Formula SAE Michigan competition.
- Assumed team in its first year creating an electric vehicle for competition.
- Designed and manufactured differential sprocket adapter using Solidworks CAD and FEA, allowing for proper motor alignment to axle by spacing sprocket off differential.

PROJECTS

Northwestern University - Design, Thinking, and Communication Course, Evanston, Illinois

Student, March 2023 - April 2023

- Guided a team of 4 students to create a program to help close achievement gap between white students and students of color in Evanston and surrounding Chicagoland area.
- Crafted 2 questionnaires, one for tutors and one for students, to be distributed to tutors and students for data collection.
- Coded a Matlab program to input data from each questionnaire, encodes it, and outputs reliable compatible tutor-student matches.

Northwestern University - Design, Thinking, and Communication Course, Evanston, Illinois

Student, January 2023 - March 2023

- Devised a device to assist an individual with hand tremors and poor proprioception, due to a stroke, don earrings with one hand.
- Conducted online research, held in-depth interviews with client and project partner, and performed user requirements research to assist in brainstorming ideas for product to facilitate donning earrings with one hand.
- Developed and tested three unique design prototypes; most efficient prototype was presented to client.

WORK EXPERIENCE

Northwestern University - Segal Design Institute, Evanston, Illinois

Manufacturing and Design Intern, June 2024 - September 2024

- Collaborated with a team of 7 design students to devise, design, and manufacture an unstructured, interactive puppet theater for children to foster imagination, encouraging creativity and social development.
- Ideated through 6 weeks of brainstorming sessions with final concepts being solidified through industrial sketching and formulating mock-ups reviewed by peers and Northwestern Engineering professors.
- Utilized computer-aided design and manufacturing to design and cut out various wooden parts; assembled via finger joints, wooden glue, and dowels; no metal fasteners allowed required much creative problem-solving.