

## Kate Seigny

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Ithaca, New York

### EDUCATION

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#### Cornell University

Expected Graduation: May 2027

##### *College of Engineering*

- Major: Mechanical Engineering
- GPA: 3.81
- Relevant Coursework: Introduction to Computing: Design and Development (Python), Statics and Mechanics of Solids, Thermodynamics, Dynamics, Introduction to Mechanical Design, Fluid Mechanics, System Dynamics, Mechanics of Materials

### TECHNICAL EXPERIENCE

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#### Microflex Inc.

2025

##### *Mechanical Engineering Internship*

- Designed assemblies for expansion joints and corrugated hoses using CADKEY and SolidWorks for 3D modeling and Finite Element Analysis
- Applied ASME piping codes and EJMA standards to various design quotations
- Utilized design for manufacturing practices

#### Cornell College of Engineering

2024-25

##### *Academic Excellence Workshop Facilitator (CHEM 2090 and MATH 1920)*

- Collaborated with a co-facilitator to formulate slideshows and worksheets for weekly sessions
- Built professional oral and written communication skills with bimonthly workshops
- Fostered relationships with peers and younger engineering students in a supportive environment

#### Cornell University Solar Boat Student Project Team

2024-25

##### *Drivetrain Subteam Member*

- Used SolidWorks software in design and prototyping of the drivetrain assembly
- Went through the engineering design cycle with a semester long project of the coupler holder redesign, including designing, prototyping, testing, and integration
- Made adjustments during assembly with hand tools and machining (mill and lathe)

### LEADERSHIP EXPERIENCE

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#### Cornell Women's Club Volleyball

2023-25

##### *Vice President*

- Communicated with students of various backgrounds to coordinate events
- Managed fundraising, budgeting, and team registration
- Served as Club Sports Council Representative to advocate for increased representation

#### Theme Park Entertainment Group

2024-25

##### *Treasurer*

- Analyze current and future attractions from an engineering perspective
- Used OnShape to prototype and 3D print designs for attractions
- Traveled to Orlando to gain hands on experience and learn industry best practices

#### Engineering Leadership Certification Program

2025

##### *Candidate*

- Attended retreats and weekly classes focused on knowledge of self, impact, and self-advocacy
- Met with a leadership coach biweekly to discuss core values and leadership purpose
- Worked on a semester long small-group project focused on helping aligning with purpose

### SKILLS

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Experienced in Microsoft Applications (Excel, Word, Outlook, PowerPoint), educated in Python and MatLab (including SimuLink), practiced modeling with Fusion360, SolidWorks, OnShape and Cadkey, machine Shop Trained (mill and lathe), performed FEA with Solidworks