

# Kirsten Scheller

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## EDUCATION

<b>Cornell University, College of Engineering</b> <i>Bachelor of Science in Electrical and Computer Engineering</i>	May 2021 (Expected) Ithaca, NY
• Minors: Classical Literature, History • GPA: 3.25, Dean's List: Spring 2018 and Fall 2019	
<b>Cornell University, Meinig School of Biomedical Engineering</b> <i>Master of Engineering in Biomedical Engineering</i>	May 2022 (Expected) Ithaca, NY

## RELEVANT EXPERIENCE

<b>Molnar Group, Cornell University Department of Electrical Engineering</b> <i>Research Assistant</i>	May 2019-Present Ithaca, NY
• Investigate electro-chemical noise at the platinum electrode-solution interface at varying ambient light conditions • Characterized microscale opto-electronically transduced electrodes (MOTEs) for tetherless neural recording, including noise floor, gain, bandwidth, and power supply rejection • Built a Python-controlled, automated measurement setup that can simultaneously control voltage sources, a functional generator, and an oscilloscope	
<b>Cayuga Heights Fire Department</b> <i>Volunteer Firefighter</i>	2018-Present Ithaca, NY
• Assess emergency situations quickly and act appropriately to assist victims and to contain fires • Collaborate and communicate effectively with first responders on emergency calls • Lead and oversee weekly skills classes and department training sessions • Respond to approximately 20 EMS and fire calls per month	

<b>Persistent Systems</b> <i>Embedded Software Intern</i>	Cancelled Due to COVID-19 New York, NY
<b>Ferring Pharmaceuticals</b> <i>Information Technology and Automation Intern</i>	May - August 2018 Parsippany, NJ
• Analyzed and maintained electrical schematics to resolve manufacturing environment issues • Improved real-time monitoring system capable of overlooking 500 utility, production, and packaging devices • Simplified network paths to reduce network traffic between administrative devices and production machines	

## LEADERSHIP EXPERIENCE

<b>Alpha Omega Epsilon, Professional Engineering Sorority</b> <i>Philanthropy Chair, Cornell University Chapter</i>	January 2018-Present Ithaca, NY
• Coordinate non-profit philanthropy outreach events to encourage young women to partake in STEM fields	
<b>Cornell University Women's Club Soccer</b> <i>Captain &amp; Former President</i>	August 2017-Present Ithaca, NY
• Devote 25 hours per week to practice, games, and administration for the nationally competitive club team • Oversee \$18K budget as a leading administrator of the entirely student-run organization	

## PROJECTS

- Autonomous Maze-Mapping Robot, Wizard's Chess, FRDM Board Pedometer
- Github: <https://github.com/kirstenscheller>

## SKILLS

- Programming Languages: Python, Java, MATLAB, Git, Basic C, HTML/CSS
- Hardware: Altium PCB Design, Arduino, FPGA, FRDM Board, Circuit Components, Electrical Test Equipment
- Technical Skills: Adobe InDesign, Adobe Photoshop, Microsoft Office
- Emergency Response: New York State Firefighter, CPR/BLS Certified, HAZMAT Operations