Kirsten Scheller
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EDUCATION

Cornell University, College of Engineering May 2021 (Expected)
Bachelor of Science in Electrical and Computer Engineering Ithaca, NY

- Minors: Classical Literature, History
- GPA: 3.31, Dean's List: Spring 2018 and Fall 2019

Cornell University, Meinig School of Biomedical Engineering May 2022 (Expected)
Master of Engineering in Biomedical Engineering Ithaca, NY

RELEVANT EXPERIENCE

Persistent Systems January 2021
Embedded Engineering Intern New York, NY

- Perform and document analysis of CPU work level during video encode and decode
- Write Python scripts to test prototype power draws and performance of on-board components, including radio

Molnar Group, Cornell University Department of Electrical Engineering May 2019-Present
Research Assistant Ithaca, NY

- Investigate electro-chemical noise at the platinum electrode-solution interface at varying ambient light conditions
- Characterize 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

Cayuga Heights Fire Department February 2018-Present
Volunteer Firefighter 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 department training sessions; respond to approximately 20 EMS and fire calls per month

Ferring Pharmaceuticals May - August 2018
Information Technology and Automation Intern 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

Alpha Omega Epsilon, Professional Engineering Sorority January 2018-Present
Philanthropy Chair, Cornell University Chapter Ithaca, NY

- Coordinate non-profit philanthropy outreach events to encourage young women to partake in STEM fields

Cornell University Women's Club Soccer August 2017-Present
Captain & Former President 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, Neural Repeater, Wizard's Chess, FRDM Board Pedometer
- https://kirstenscheller.github.io

SKILLS

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