

GABRIEL EWIG

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Education

Cornell University

Expected May '24

Ithaca, NY

College of Engineering, B.S. Mechanical Engineering

Minor in Environment and Sustainability

GPA: 3.4

Central High School

June '19

Saint Paul, MN

GPA: 3.83

Awards: High Honors, National Honor Society, Captain of Club Rowing Team

University of Minnesota

'18/'19 Academic Year

Minneapolis, MN

Full-Time Post-Secondary Enrollment Options (PSEO) Student

Completed university classes in physics and math as a high school senior

Awards: Dean's List

Experiences

Bicycle Mechanic

Aug. '20 – Present

Old Goat Gear Exchange – Ithaca, NY

- Full-Time Head Mechanic Aug '20 – June '21
- Complete a wide range of bike repairs and maintenance, including complex tasks such as wheel building and electronic shifting setups
- Shimano S-Tec Certified Technician, e-bike certified for eSteps, Bosch

Developer & Lab Technician

Mar. '19 – Aug. '21

Cyclikal – Saint Paul, MN

- Wrote software to control cycling and measurement of li-ion batteries, which streamlined testing and has been in use for over three years
- Setup equipment to conduct precision calorimetry tests on li-ion cells
- Installed vibration mill used for material synthesis

Assistant Juniors Coach

June – Aug. '20

Minneapolis Rowing Club – Minneapolis, MN

- Designed and led practices and workouts for high school rowers
- Worked with a team of coaches to organize athletes and equipment while maintaining safety and social distancing given COVID-19

3M STEP Intern

Jan. – Aug. '18

3M Science Training Encouragement Program – Saint Paul, MN

- Intern with Research Specialist Vincent Chevrier testing li-ion batteries
- Developed application to control and gather data from test equipment
- Continued project the next year as an employee at the start-up Cyclikal

Skills

Programming: Python, HTML/CSS, some experience in Java, C

Software: Microsoft Office, Autodesk Fusion 360, Adobe Creative Cloud, Maple

Fabrication: Manual Lathe, 3D Printing, Soldering

Certifications: Wilderness First Aid, CPR

Languages: Conversational Spanish and German

Coursework

Completing sophomore-level mechanical engineering curriculum including: Mechatronics, Thermodynamics, Statics and Mechanics of Solids

Focus on environmental sustainability including: Sustainable Transportation, Society and Natural Resources, Climate Change and You the Engineer

Took an academic leave to develop skills and earn money during pandemic, '20 - '21 academic year