

# AMETHYST O'CONNELL

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## PROFILE

**Aspiring Electrical Engineer passionate about building the future.** Completed general courses at community college and transferred to the University of Minnesota for a degree in Electrical Engineering. Seeking a full-time internship for summer 2021, and part-time remote work opportunities during the quarantine.

## EDUCATION

**University of Minnesota** Minneapolis, MN Expected May 2022  
Bachelors of Science in Electrical Engineering

- Introduction to Digital System Design
- Beginning Japanese I
- Sustainable Energy Supply
- Linear Systems, Circuits, and Electronics
- Microcontrollers
- Power Systems Journey

**Saint Paul College** Saint Paul, MN Graduated May 2018  
Associates of Science in Engineering Broad Field GPA: 3.16

- Physics I & II
- Chemistry I & II
- Introduction to Computing and Programming Concepts with Python
- C/C++ for Scientists and Engineers
- Digital Electronics
- Circuit Analysis
- Calculus I, II
- Calculus III, IV

## SKILLS

Breadboarding  
Powerpole connectors  
C/C++  
GitHub

Multisim  
PTC Creo  
Soldering  
HTML

Circuit Diagrams  
Microsoft Office  
CSS  
Python

## EXPERIENCE

**Solar Vehicle Project** Minneapolis, MN 9/2018 - Present  
Controls and Ops Member

- Developing relationships between companies and the project
- Referenced schematics in Altium to assemble and solder boards
- Worked on assembling the fiberglass and Nomex body of the solar car

**Loram Maintenance of Way** Hamel, MN 5/2019 – 8/2019  
Electrical Engineering Intern

- Used Autodesk Inventor and Vault alongside Promis-e to represent electrical components and their placement on a train
- Presented design changes through a design review process

**Saint Paul College** Saint Paul, MN 8/2017 – 5/2018  
Student Senate President

- Scheduled and planned meetings, created an inviting space for constituents
- Represented the student body in college committees, communicated student needs
- Sent professional emails and professional documents to administrators, students, and faculty
- Created and fostered growth in the Saint Paul College Robotics Team

**NASA** Houston, TX 10/2017 - 4/2018  
NASA Community College Aerospace Scholars

- Took a 5-week online course from NASA scientists culminating in a detailed plan for a Mars Rover
- Selected from over 1,000 applicants to attend a 1-week experience at the Johnson Space Center

NASA L'SPACE Mission Concept Academy 6/2019 - 8/2019

- Paired with a virtual team, created a mission concept document in the style of NASA's official documents

NASA L'SPACE NPWEE 9/2019 - Present

- Working with a virtual team, creating a NASA proposal, and competed for \$10,000 of funding. Was fourth overall and was the proposal reviewer who selected the winning proposal.

## ASSOCIATIONS

Association for Computing Machinery (ACM)  
Institute of Electrical and Electronics Engineers (IEEE)  
Surface Mount Technology Association (SMTA)