

AMETHYST O'CONNELL

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EDUCATION

University of Minnesota Minneapolis, MN December 2021

Bachelors of Engineering: Electrical Engineering, minor in Sustainability Studies

- Introduction to Digital System Design
- Beginning Japanese I
- Sustainable Energy Supply
- Analog Electronics
- Microcontrollers
- Power Systems Journey

Saint Paul College Saint Paul, MN

Graduated May 2018

Associates of Science in Engineering Broad Field

GPA: 3.16

- Introduction to Computing and Programming Concepts with Python
- C/C++ for Scientists and Engineers

SKILLS

Python	Surface Mount Technology	Circuit Diagrams
C/C++	PTC Creo	Microsoft Office
GitHub	Soldering	Multisim
HTML/CSS	Altium Designer	Breadboarding

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

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

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

NASA Community College Aerospace Scholars

10/2017 - 4/2018

- 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)