

## Sara O'Duffy

5921 Stone Hill Road • Lakeville, NY 14480 | (585) 943-2094 • oduffysara@yahoo.com

### EDUCATION & CERTIFICATIONS

<b>B. Tech., Mechanical Engineering Technology</b>	December 2020
<b>Minor, Mathematics</b>	
SUNY Canton, Canton, NY	<b>GPA 3.87</b>
<b>OSHA 10 General Industry</b>	Current
SUNY Canton, Canton, NY	

### SKILLS

- CNC Lathes and Mills
- MATLAB
- ANSYS
- GD&T
- AutoCAD and AutoDesk Inventor
- 3D Printing
- Microsoft Office

### RESEARCH EXPERIENCE

<b>Senior Capstone Project in Mechanical Engineering</b> , SUNY Canton	Spring 2020
Solar Pane Debris – Cleaning Apparatus for Solar Panels	
<ul style="list-style-type: none"><li>• Gathered experimental data on residential solar panels</li><li>• Research ways to maximize solar panel efficiency</li><li>• Investigated methods for designing a solar panel cleaning apparatus</li><li>• Application of this research was put on hold due to COVID-19</li></ul>	
<b>School for International Training/University of Iceland</b> , Iceland	Summer 2019
Optimal Charging Network of Electric Vehicles in Iceland; Location Incentives, Practicality of Electric in Icelandic Weather	
<ul style="list-style-type: none"><li>• Explored the Icelandic Hydro-Electric, Geothermal and Wind plants</li><li>• Gathered background research from Energy and Economic experts regarding Iceland</li><li>• Received instruction in Icelandic language and culture</li><li>• Developed a research proposal and plan of study</li><li>• Proposed a solution for increased utilization of electric cars</li><li>• Presented research and analysis to cohort</li></ul>	

### PRESENTATIONS

<b>Solar Pane Debris – Cleaning Apparatus for Solar Panels.</b> Poster Presentation. Scholarly Activities Celebration. SUNY Canton, April 2020.
<b>Electric Vehicle Research Presentation.</b> Oral Presentation. School for International Training/University of Iceland, August 2019.
<b>MEAD Paper Presentation.</b> Oral Presentation. American Society of Civil Engineers Regional Competition, April 2018.

**Project Lead the Way.** Group Presentation. Rochester Institute of Technology, May 2017.

### LEADERSHIP & EXTRACURRICULAR ACTIVITIES

<b>Student-Athlete</b> , Women's Cross-Country Team, SUNY Canton, NY	Fall 2019 – Present
<b>Honors Program Member</b> , SUNY Canton, NY	Fall 2019 – Present
<b>Secretary</b> , American Society of Civil Engineers, Canton, NY	Spring 2019 – Present
<b>Society of Women Engineers</b> , Canton, NY	Fall 2018 – Present
<ul style="list-style-type: none"><li>• Elected President (Fall 2019 – Spring 2020)</li><li>• Served as Senator (2018 – 2019) and Treasurer (2017 – 2018)</li></ul>	
<b>Habitat for Humanity</b> , Canton, NY	Spring 2018 – Present

- Served as President (Fall 2018 – Spring 2019)
- Member**, Outdoor Adventure Club, SUNY Canton, NY Fall 2018 – Present  
**Member**, ASCE Steel Bridge Team, SUNY Canton, NY Fall 2017 – Spring 2019  
**HONORS & AWARDS**

---

<b>President's Honors List</b> , SUNY Canton	Fall 2017 – Present
<b>Scholarly Activities Poster Presentation Award</b> , SUNY Canton	Spring 2020
<b>Leaders of Tomorrow Award</b> , SUNY Canton	Spring 2019, 2020
<b>American Society of Civil Engineers Annual Scholarship</b>	2019 – 2020
<b>E.B. and Gladys Kennedy Endowed Scholarship</b> , SUNY Canton	2018 – 2020
<b>Joyce A. MacArthur/CTC Women Endowed Scholarship</b> , SUNY Canton	2018 – 2020
<b>Women's Cross Country Team MVP Award</b> , SUNY Canton	Fall 2019
<b>ASCE Student Scholarship</b>	April 2019

#### ADDITIONAL WORK EXPERIENCE

---

- Distribution Designer I**, TRC, Liverpool, NY November 2020 – Present
- Design and prepare construction orders related to overhead, underground facilities, guides, specification, and procedures
  - Prepare manual or computer assisted design and construction drawings
  - Perform distribution system design calculations
- Produce Associate**, Wegmans, Geneseo, NY June 2018 – December 2020
- Comply with Wegmans Policies and Work Rules, as well as, federal and state laws
  - Maintain open lines of communication to ensure efficient operations
  - Handle products, equipment, and follow sanitation practices set by board of health
- Student Ambassador**, SUNY Canton Admissions, Canton, NY August 2019 – May 2020
- Tour prospective students and their families
  - Present a positive image of the college
- Receptionist**, SUNY Canton Ready Center, Canton, NY August 2018 – May 2020
- Answer phone calls, schedule appointments, and answer questions
  - Promote events and work promotional tables
  - Update social media with events and festivities
- Group Leader**, Women in Engineering Workshops, Canton, NY Feb 2017 – Spring 2018
- Coordinated workshops focusing on support women in non-traditional majors
  - Fulfilled grant goals and objects and recorded attendance and document activities
- Library Assistant**, Southworth Library, Canton, NY Fall 2017 – Spring 2018
- Assisted patrons with reserved materials and computer devices
  - Shelled books and other library materials and conducted hourly census of patrons