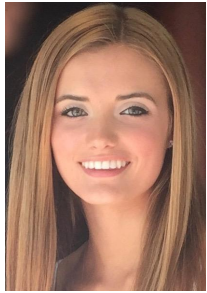


ELIZABETH VOLPE, EIT

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<https://www.linkedin.com/in/elizabeth-volpe-a5773013a/>

I have just completed my senior year in civil engineering at Clemson University. I am looking forward to starting a Masters and PhD program at the University of Florida in fall 2020, where I will be researching engineering education and workforce development in the Simmons Research lab. I am highly efficient, organized, motivated, and love to learn. I aspire to one-day work in engineering education and help increase the retention rate of intelligent women, minorities, and students with disabilities in engineering programs.

Experience

Clemson UPIC Research Internship

Spring 2020 & Virtually Summer 2020

I have been working with Dr. Lisa Benson in the Clemson University Engineering Sciences Education Department. This research focuses primarily on the Engineering, Science, and Mathematics Education Research (ESMER) institute and the uses of various types of research required, qualitative, quantitative, or both, in order to further research in STEM education. In addition we have worked together on various proposals in order to hold a workshop that would train faculty in Discipline-based Education Research (DBER) in relation to the COVID-19 Pandemic that would allow faculty to research the issues revolving around equity to access during this transition to online learning.

Math Tutor

Virtually Spring & Summer 2020

I have been tutoring students (mostly K-12) in their math courses as they transition to online learning during the COVID-19 Pandemic. I work one-on-one with students over ZOOM, providing them additional problems and examples to work through to help complement their virtual math lessons. I use screen-sharing features to help them work through any challenging problems they encounter. Each tutoring session is tailored specifically to the student's needs, with a strong focus on areas where the student has struggled most since the transition to online learning.

Burns & McDonnell Internship

Summer 2019

I worked full time for Burns & McDonnell in engineering consulting. Specifically for the overhead Transmission and Distribution group. I ran structural design calculations for substations structures as well as modeled structures in RISA-3D. I also became familiar with marking up engineering drawings and designing overhead transmission lines in PLS-CADD. One of my main projects was using various models to collect data on a transmission line that ran through San Diego. This data was then inputted in order to create an app that could be used by maintenance to help manage the vegetation overgrowth along the lines and reduce the risks of wildfires. I also completed the OSHA 10 safety-training course and am now OSHA 10 certified.



140 S. State College Blvd, Suite 100 \ Brea, CA 92821
Mentor: Diana Tang: DaTang@burnsmcd.com
Project Team Member: Shatha Altawarah Saltawrah@burnsmcd.com

Wegmans Construction Co-Op **Summer 2018**

I interned full time for the development group at Wegmans. I went through a week of training in different programs and tools used for development. Every week, I spent some time shadowing and working with different departments such as estimation, civil/site engineering, mechanical engineering, project management, event planning, accounting, site work, facilities management, and design/architecture. I also had individual projects to work on, including estimating project costs, assisting with bid packages, planning the company picnic, and programming their estimating program, costX, to create templates and reports used for executive summaries and budgets to accounting. CostX was a new program to Wegmans and I was the lead on working with the program to input all Wegman's specific data and have it interact with their other design software. The program was in full use by my team by the end of my internship.

Wegmans Corporate: 100 Wegmans Market St, Rochester, NY 14624
Mentor: Casey Fitzpatrick: Casey.Fitzpatrick@Wegmans.com
Team Manager: Mark Argenta: Mark.Argenta@Wegmans.com (585) 464-4620

Sweetwater Energy Internship **Summer 2016**

After high school, I worked in the Sweetwater Energy lab under Chemists and Engineers. We tested different biomaterials to find the most efficient materials and processes to create ethanol. Sweetwater Energy works to recycle biomaterials that have already been used in the planting process (ex. mushroom substrate) and create renewable energy. This internship was to help me get an introduction into the engineering field before entering college.

300 Trolley Blvd. Rochester, NY 14606. Phone: 585-647-5760.

Rochester Red Wings, Suite Attendant/Runner **Summer 2017.**

Worked in customer service at the Rochester Red Wings baseball stadium. Serviced the suites at the stadium, cleaned the suites, brought food, and ran the ice cream sundae cart (set up, serviced, kept inventory, dealt with money and accounting, cleaned up).

333 Plymouth Ave N, Rochester, NY 14608. (585) 454-1001.
Supervisor: Courtney Trawitz Ctrawitz@redwingsbaseball.com

Hospice Volunteer **2014-2016**

Registered Hospice aid. Volunteered at both St. Ann's Community Hospice Care and the Benincasa House. Hospice home: Benincasa 3880 Rush-Mendon Rd, Mendon NY, 14506. (585) 624-8070.

Wildwood Country Club, Hostess **2016**

Hostess, worked weddings, bussed tables. Gained lots of experience in customer service since Wildwood has high expectations in terms of customer service and work ethic for their employees. Stonebridge Bar & Grill, Wildwood Country Club, 1201 Rush West Rush Rd, Rush, NY 14543. (585) 334-5860.



Involvement and Achievements

Academics

Clemson's President's list 2018 & 2019. Clemson's Dean's List 2016 & 2017 & 2020. Recipient of an academic scholarship at Clemson University and The Harley School.

Athletics

Varsity Soccer team captain in High school. Participate in intramurals at Clemson University. Participate in the water sports club at Clemson University.

CE • Ment Engineering Mentorship Program

Appointed as a mentor in the Civil Engineering program to incoming engineering students. I attend additional leadership courses and help organize events such as the new student orientation for Civil Engineers and the Hard Hat ceremony. The goals of this mentorship program are to help ease the transition into such a challenging major and provide resources for new students. As well as make sure our civil engineering program is as inclusive as possible.

Clemson LIFE Teaching Assistant

The Clemson LIFE program is the college for students with intellectual disabilities at Clemson University. For the past four years I have been a volunteer with this program. I have taken students to work out classes, dinners, and helped to organize their fall formal dance. My senior year I had the opportunity to be a teaching assistant for the Sophomore Math class for Clemson LIFE. I attend their math course and work with the teacher to help students grasp new concepts, answer questions, keep them focused in class, and work one on one with them.

<https://www.clemson.edu/education/research/programs/culife/>

Education

University of Florida Fellowship

2020-2025

College of Civil and Coastal Engineering. Construction (M.S.) (PhD).

Research in Engineering Education and Workforce Development at the Simmons Research Lab.

Clemson University

2016-2020

Major: Civil Engineering (B.S.). Clemson University, Clemson, SC 29634. Graduated Spring 2020.

The Harley School

2012-2016

High school. 1981 Clover St, Rochester, NY 14618. (585) 442-1770. Academic Advisor: daobrien@harleyschool.org.



References

Dr. Lisa Benson

Research Advisor Department of Engineering and Science Education and editor of the JEE
lbenson@clermson.edu

Nikki Guilfoyle

Soccer Coach and Mechanical Engineer at EC4B
(585) 415-7591
nguiffoyle@ec4b.com

Casey Fitzpatrick

Construction Estimator at Wegmans Construction
My Co-Op Mentor for summer 2018 at Wegmans
casey.Fitzpatrick@Wegmans.com