

## Education

**Bachelor of Science in Civil Engineering**, University of South Florida

GPA: 3.37, May 2020

## Experience

### **Element Engineering Group, LLC**

Engineer Intern, June 2020 – Present

- Created Microstation concepts for collision diagrams, Safe Routes to School (SRTS), complete streets, and lane repurposing projects.
- Analyzed crash data from the State Safety Office Geographic Information System (SSOGIS) and Signal Four Analytics to identify trends and determine best safety improvements.
- Prepared technical memorandums and reports for Road Safety Audits (RSAs) documenting existing conditions, crash data, safety improvements, and benefit-cost analysis.
- Conducted field reviews to accurately assess and make observations of project locations.

### **Center for Urban Transportation Research (CUTR)**

Student Research Assistant, October 2018 – June 2020

- Spearheaded Construction Cost Report for FDOT which analyzed trends in employment, producer prices, and real estate to help FDOT make project decisions.
- Analyzed data from the National Household Travel Survey using RStudio to find trends in public transit.
- Performed literature reviews for research papers relating to safety such as fatigue and onboard bus technologies.
- Created presentations of safety data for the Federal Transit Administration.

### **Traf-O-Data Corp.**

Part-time Transportation Planner, February 2017 – August 2019

- Prepared traffic site transportation analysis exhibits for clients, including traffic counts, turning movements, level of service, and project traffic distribution.
- Created microsimulations of streets and intersections in Vissim for analysis.
- Performed model calibration and validation for FDOT's District 1 FSUTMS Model in Cube Voyager.
- Prepared technical memorandums for clients such as FDOT, detailing project sites, model revisions, forecast model development, and traffic plots.
- Launched a new website to improve Traf-O-Data's online presence.

## Campus Leadership

### **Institute of Transportation Engineers (USF ITE)**

Webmaster, May 2018 – May 2020

- Launched a new website to improve USF ITE's online presence.
- Maintained and updated information displayed on USF ITE's website, such as calendars and events.
- Maintained USF ITE's Facebook page, including recording, editing, and posting seminar videos.

### **Florida Airports Council at USF**

Treasurer, November 2019 – May 2020

- Received, dispatched, and kept accurate records of all financial matters regarding the Florida Airports Council at USF's annual budget to the financial review of SBS allocation from Student Government.

## Awards and Memberships

2<sup>nd</sup> Place Tampa Bay ITE Technical Paper Competition 2019

Georgia Brosch Memorial Scholarship 2018

ITE International Collegiate Traffic Bowl Champions 2018

Friend of the TRB Task Force on Transit Safety and Security

Friend of the TRB Standing Committee on Rail Transit Systems

## Works

Jodi Godfrey, Steven Polzin, **Tyler Roessler**. (2019). Observations on Public Transportation from the 2017 National Household Travel Survey. *National Center for Transit Research*.