

# Claire Casey

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## EDUCATION

**RICE UNIVERSITY, Houston TX**

Graduated: May 2019

**Bachelor of Science in Civil and Environmental Engineering**

Concentration in Urban Infrastructure Engineering

**GPA: 4.04 Weighted, 4.00 Unweighted**

- *Honors and Awards:* Overall Outstanding Senior Engineering Student (Texas Society of Professional Engineers), President's Honor Roll (All Semesters); Tau Beta Pi Honor Society; Chi Epsilon Honor Society; Louis J. Walsh Scholarship in Engineering; James Redding Sims Scholarship for Civil and Environmental Engineering; Global Urban Lab Research Award
- *Relevant Coursework:* Transportation Systems in Urban Europe; Strategies for Urban Livability; Renewable Energy Systems Probability and Statistics; Bridge Engineering & Extreme Events; Sustainable Design; Engineering Computation
- *Relevant Certifications:* Engineer-In-Training

## PROFESSIONAL EXPERIENCE

**Kittelson & Associates** Oakland CA

August 2019 – Present

*Transportation Analyst*

- Actively contribute to various transportation projects, including systemic safety analyses, citywide active transportation plans, traffic operations, final design roadway improvements, and database and tool development.
- Collaborate with clients, project managers, and other analysts to provide clients and communities with meaningful transportation solutions.
- Part of leadership teams that spearheaded monthly discussions with analysts across the firm and bi-weekly workload and skill sharing sessions among peers in the region.

**Tesla, Inc.** Reno NV

May – August 2018

*Civil Engineering Intern*

- Integral member of Gigafactory 1 Engineering Design team; developed CAD standards and collaborated with other disciplines while assisting with the civil design for various projects on site, including fencing and striping exhibits, truck loading dock and scale installations, CAD vehicle tracking simulations, and the Stormwater Pollution Prevention Plan design.
- Collaborated on a 30-year transportation study by researching transportation options and analyzing parking and shuttle data.

**Jones|Carter**, Houston TX

May - August 2017

*Site Development Intern*

- Assisted in site development design including a mass grading analysis, updating AutoCAD drawings, paving and drainage analyses, creating plans and profiles, and generating cost estimates and budget worksheets on Excel.
- Attended weekly team meetings and communicated daily with project managers, engineers, EITs, and other interns.

## RELEVANT PROJECTS

**Department of Civil and Environmental Engineering**, Rice University, Houston TX

August 2018 – May 2019

*Senior Design Project: Multimodal Transportation Design for Rice University*

- Evaluated the current transportation system and usage on campus to design a master plan focused on reducing single-occupancy vehicles on campus and improving multimodal transportation to the Houston area and safety at surrounding intersections.

**Department of Civil and Environmental Engineering**, Rice University, Houston TX

January - December 2017

*Undergraduate Research Assistant: Analyzing Houston's Energy Grid*

- Developed a computational algorithm in MATLAB to analyze and store data of power outages in the Houston Area to better understand the energy grid network, reliability, and resilience.
- Graphically communicated these spatial and temporal relationships using ArcGIS and Microsoft Excel.

**Global Urban Lab**, Rice University, Houston TX

January - May 2017

*Published Research Paper: "Houston and Barcelona: Land Use and Transportation through the Lens of Sustainability"*

- Conducted anthropological research including observation and interviews in Houston and in Barcelona over Spring Break comparing and contrasting transportation systems and land use patterns in the two cities.
- Received a Global Urban Lab Research Award and had finished paper published in Global Urban Lab: Bridges.

## ACTIVITIES

**Senior Interviewer – Rice University Admissions Office**

May 2018 – May 2019

**Treasurer and Secretary – Rice University Chapter of Chi Epsilon**

April 2018 – May 2019

**Planning, Monitoring, Evaluating, and Learning Team Lead – Engineers Without Borders**

Sept. 2015 – December 2017

**Peer Academic Adviser – Rice University Office of Academic Advising**

April 2016 – April 2018

**Teaching Assistant – Rice University Department of Civil and Environmental Engineering**

August 2017 – December 2017

**Campus Tour Guide – Rice University Admissions Office**

Feb. 2016 – December 2017

## SKILLS

- *Computer:* advanced in AutoCAD Civil 3D, MATLAB, Bluebeam, ArcGIS, Microsoft Office Suite; intermediate in Python, R, Vistro