



MAYRA REYES CRUZ

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EDUCATION

University of California, Berkeley, CA | B.S. Civil and Environmental Engineering

Expected Dec 2020

Taft College, Taft, CA | A.S. Engineering and Mathematics

Aug 2014-May 2018

COURSEWORK

Past: Environmental justice, Structural engineering, Fluid mechanics, Steel design, Project management, Geotechnical engineering, Engineered systems and sustainability, Data analysis, and Concrete, construction and sustainability.

Current: Wood design, Environmental engineering, Thermodynamics and Remote sensing of the environment.

SKILLS

- Proficient with AutoCAD, Inventor, Microsoft Office and Procore
- Familiarized with C++, MATLAB, and Python
- Native Spanish speaker

WORK EXPERIENCE

Student Assistant | University of California, Berkeley | Berkeley, CA

Aug 2020-Present

10hrs/week

- Help engineering students find tutoring, academic, and mental support through the Center for Access to Engineering Excellence.
- Support and mentor of the First-Generation Mentor Program for transfer students.

Field Engineer Intern | XL Construction | Berkeley, CA

Jun 2020-Aug 2020

40hrs/week

- Write RFIs to architects and engineers, and post RFIs on Procore.
- Write daily reports of five trades.
- Record work progress of the medical office building's exterior skin.

Research Assistant | University of California, Berkeley | Berkeley, CA

Aug 2019- May 2020

10hrs/week

- Assist PhD student with conducting research focused on reducing carbon dioxide emissions that come from the production of cement.
- Create and test mixes of concrete that use less cement by introducing various ratios of metakaolin to cement.

Engineering Intern | BSK Associates Engineers & Laboratories | Bakersfield, CA

Jun 2019-Aug 2019

30hrs/week

- Realized moisture content, dry density and direct shear tests to soils.
- Practiced standard test methods for liquid limit, plastic limit and plasticity index of soils.

Survey Intern | Towill, Inc. | Concord, CA

Jun 2018-Sep 2018

40hrs/week

- Red lined weld maps for PG&E.
- Drafted boundaries in Civil 3D AutoCAD and performed survey mapping.
- Created a GIS for a project that included sewer dipsheets and manholes.

Teacher Assistant and Chemistry Tutor | Taft College | Taft, CA

Aug 2015-May 2018

10hrs/week

- Graded homework, exams, quizzes, and laboratory experiments for earth science, geography, geology, and chemistry.
- Prepared laboratory experiments for students twice a week.
- Tutored 20 students per week.

Research Intern | Shafter Research Station | Shafter, CA

Jun 2016-Sep 2017

40hrs/week

- Installed an irrigation system for the greenhouse and planted tomatoes, chili peppers, and eggplants.
- Designed and created a food dehydrator to accelerate the process of drying chili peppers.
- Researched in creating a pesticide based in chili pepper powder to stop whiteflies from attacking the cotton crops.

EXTRACURRICULAR

American Society of Civil Engineers

Sep 2018

- Active member of the student chapter at UC Berkeley