

Yijie (Andrea) Gao, E.I.T.

yijiegao@stanford.edu

602-545-7698

Stanford, CA 94305

EDUCATION

Stanford University

Master of Science in Structural Engineering
September 2018 - March 2020

Northern Arizona University

Bachelor of Science in Civil Engineering
August 2014 - May 2017

EXPERIENCE

Structural Engineering Intern, KPFF

Jun 2019 - Aug 2019

- Performed timber, steel, and concrete design and prepared calculation package for permitting
- Modeled and performed vibration analysis in ETABS
- Reviewed typical details, construction submittals, and structural observation reports
- Designed retaining walls, beam and columns, glasswall connections for Apple, Boeing and Wework projects

Structural Engineering Intern, Jacobs

Jun 2017 - Jun 2018

- Developed solutions for projects including masonry stem wall design, bridge cost estimation, and plan drafting under supervision of a Professional Engineer
- Conducted transverse analysis in addition to designing bridge parapet barrier and derailment protection for the California High-Speed Rail project
- Performed construction documents reviews for the Phoenix Light Rail project, and developed a process to streamline workflow
- Trained two employees up to the level of proficiency in job responsibilities

Building Design Capstone Project Manager, Northern Arizona University Jan 2016 - Dec 2016

- Managed structural design, civil site planning, and cost estimates for a structural project
- Utilized codes and standards from the IBC, the AISC Steel Construction Manual and the Flagstaff Engineering Standards
- Created building models for load calculations and visual simulations in RISA 3D and Sketchup

AWARDS

- 2019 California Homebuilding Foundation Scholarship
- 2017 Northern Arizona University Gold Axe Award, acknowledging extracurricular contributions to the university
- 2016 ASCE National College New Faces of Civil Engineering (one of ten national recipients)
- First Place Recipient for 2016 Arizona Pavements/Materials Conference student poster competition
- 2016 Arizona Bridge Technical Committee Dave Lawson Memorial Scholarship
- 2016 Arizona Society of Civil Engineers Scholarship

ACTIVITIES & SOCIETIES

- Student Leadership Council Representative of the Stanford University chapter of Earthquake Engineering Research Institute (EERI) (2019- Present)
- Fundraising Officer for the NAU chapter of the American Society of Civil Engineers (ASCE) (2014-2017)
- Activity Coordinator of Global Engineering Outreach (GEO) (2014-2017)

SKILLS

- Proficient in AutoCAD, Revit, ETABS, SAP 2000, RAM Structural System, Microsoft Office Suite
- Strong technical abilities including advanced reinforced concrete and steel design, advanced structural analysis, structural dynamics, finite element method, foundation design, probabilistic models in civil engineering and performance based earthquake engineering
- Excellent oral and written communication skills