

Dominic Abaya Estrada, EIT

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OBJECTIVE: I am a recent civil engineering college graduate from Cal Poly Pomona and have just taken and passed my Fundamentals of Engineering (FE) exam. From my time in undergrad, I have involved myself in multiple opportunities in which I've learned how to work within a multidisciplinary team setting, conduct research, and utilize industry softwares such as Excel and Autodesk Revit. I am currently looking for an internship/entry level position where I will be able to build off my skills I learned from Cal Poly and begin my professional career.

EDUCATION

California State Polytechnic University, Pomona
B.S. in Civil Engineering

Graduated May 2025

COURSE PROJECTS

Pacific Southwest Student Symposium - Timber Strong Design Build

December 2023 - May 2025

Structural Design Lead

- Led the structural design and analysis process of our timber structure, along with collaborating with our fabrication and construction teams, ensuring stability and compliance with competition guidelines for the 2025 Pacific Southwest Student Symposium competition
- Designed a unique cantilever beam with special reinforcement meant to deflect in a range of 0.5" - 1" under a 150 pound load
- Utilized both the National Design Specification (NDS) along with Special Design Provisions for Wind and Seismic (SPDWS) to design various wood members of the structure, ensuring safety from: shear, bending, and seismic respectfully

Senior Capstone Project - Design Build of a Zero Emission Concert Hall

September 2024 - May 2025

Architect Lead

- Won "Best Project Showcase" for Senior Project Symposium for the College of Civil Engineering
- Designed and developed architectural and structural plans for a conceptual multipurpose concert hall located in Orange County utilizing the Autodesk REVIT drafting software
- Worked alongside construction, structural, mechanical, and architectural teams to deliver a comprehensive net zero carbon emission concert hall proposal
- Prepared a 5D model utilizing Navisworks Manage 2025 to give a better visualization of the construction process of our proposed building for Senior Symposium

Cal Poly Pomona ENGAGE Program - LEED Trends

September 2024 - May 2025

Undergraduate Researcher

- Conducted qualitative and quantitative research on Leadership in Energy and Environmental Design (LEED) certified California university buildings to search for trends and correlations
- Presented research findings through poster presentation at Cal Poly Pomona's 2025 Research, Scholarships, and Creative Activities (RSCA) Conference

OTHER WORK EXPERIENCES

NASA Community College of Aerospace Scholars (NCAS)

November 2021 - July 2022

- Collaborated with other students on a team-based mission along with gaining insight into NASA's aerospace research and exploration initiatives
- Developed a presentation with other students addressing a NASA "pain point" in Advanced Air Mobility as part of NCAS's Mission 3 experience

Certified Private Tennis Coach

November 2020 - Present

- Certified by the Professional Tennis Registry to coach players ranging from beginner to intermediate levels
- Successfully led high school teams from up to 20 students in training during practices and advising throughout competitive matches

EXTRACURRICULAR EXPERIENCE

Tennis Club - Cal Poly Pomona's Competitive Team

August 2022 - May 2024

Treasurer and Competitive Player

- Managed club logistics, including budgeting, travel arrangements, and securing permissions from student government and Cal Poly
- Competed in Cal Poly Pomona's competitive tennis team against other schools

RELEVANT COURSEWORK

Intro to Civil Engineering | Statics | Technical communications | Mechanics of Materials | Computer Programming and Numeric Methods | Surveying Engineering | Surveying Lab | Infrastructure Economics and Public Policy | Geotechnical Engineering | Geotechnical Engineering Lab | Structural Analysis I | Structural Analysis Lab | Fluid Mechanics | Engineering Geology | Geology Lab | Reinforced Concrete Design | Role of Professionals Design in Society | Engineering Materials | Materials Lab | Transportation Engineering | Transportation Engineering Lab | Retaining Wall and Foundations | Construction Engineering | Construction Engineering Lab | Structural Analysis II | Steel Design

SKILLS & CERTIFICATIONS

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| • Microsoft Office (Intermediate) | • Autodesk Navisworks Manage (Basic) | • Sap2000 (Basic) |
| • Autodesk REVIT (Intermediate) | • Autodesk Civil3D (Basic) | • Tagalog (Basic) |
| • Analytical Research (Intermediate) | • Python (Basic) | • Reading Construction Documents (Basic) |