

Fernando Garcia de Alba

Engineering-In-Training (EIT) License #178506

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EDUCATION

California State Polytechnic University, Pomona, Pomona, CA, August 2021 – May 2023

GPA: 3.74 – Bachelor of Science in Civil Engineering Dean's and President's list: Fall 2021– Present
CWEA-AWWA and ASCE Member

Norco College, Norco, CA, August 2015 – December 2020

Associate in Science in Physics, Mathematics, and Pre-Engineering with Great Distinction

Overall GPA: 3.89, Dean's Honor List: 2016 - 2019

Engineering Pathway Program 2018-2020, STEM CLUB 2019-2020

COURSEWORK:

Applied Hydrology	Transportation Planning and Management	Water Resources
Surveying Engineer	Structural Design Reinforce Concrete	Technical Communication
Digital Mapping	Foundation and Retaining Wall	Geotechnical Engineering

PROJECTS

Construction Assistant, Volunteer, November 2018

- Assisted managing the demolition of a house bedroom project.
- Worked directly with the contractors during the building process, assisted in installing the wood frame, insulation, plywood, and drywall.

Orange County Sustainability Decathlon (OCSD 2023), *Senior Project*, August 2022-Present

- Collaborated along with architecture and engineering students to design and build a sustainable house that address climate change and California's housing needs.
- Worked with pier foundation experts (Central Piers Inc) to design our house temporary pier foundation following OCSD requirements which considers seismic and wind loads.
- Talked and communicated through email and in person with leaders from different industries to secure sponsorships and mentors.

Pacific Southwest Symposium (PSWS), *ASCE*, February-March 2023

- Participated in the design of the stormwater by calculating flow rates using the rational method for existing and future development of the site project.
- Implemented sustainable ideas to the design such as using fly ash in propose concrete areas, using high-albedo materials and pavement to increase the reflectivity of the sun which results in cooler areas.

WORK EXPERIENCE

Richfield Inc. *Warehouse worker*, Pomona, CA, Summer 2020

- Learned how to use multiple machinery such as stretch wrap machine, table saw, drill press, and pallet jack.
- Worked closely with colleagues with more than 10 years of experience, measuring, cutting, organizing, transporting, and wrapping wood cabinets.

SKILLS

Application: MS Office, Bluebeam, AutoCAD, Civil 3D, WaterCAD, Synchro 11, TransCAD
C++, MATLAB, Adobe Photoshop, and Illustrator

Languages: English and Spanish