TRUNG LAM

General Civil Engineering

626.234.3885 • trung.lam716@gmail.com • www.linkedin.com/in/trung-lam-0333aa256/ • Rosemead, CA

Skills

Program Skills: Civil 3D · WaterCAD · MicroStation · AutoCAD · MATLAB · SYNCHRO · Microsoft Office · ENERCALC

Languages: English · Vietnamese

Education

California State Polytechnic University - Pomona, CA

Bachelor of Science - General Civil Engineering 08/2022 - 12/2024

Pasadena City College - Pasadena, CA

Associate's Degree - General Civil Engineering 08/2019 - 12/2021

Experience

Cal Civic Engineering Inc.

Internship - Altadena, CA 08/2023 - Present

Assistant in Structural and Land Surveying

- Locate any assessor maps for the site location before surveying.
- Conduct field surveys, ensuring the collection of precise and reliable data.
- Stake out property corners.
- Conduct slope analysis on Civil 3D
- Design retaining walls based off of soil report, using soil bearing, passive pressure, active pressure, and soil friction using ENERCALC.
- Draft architectural plan drawings to Civil 3D file.
- Develop Erosion Control Plan for the site condition to mitigrate and manage soil erosion.
- Draft and send out proposals for project.
- Manage any billings and ongoing invoice using Excel and Adobe.

Projects

Freeway Design - Transportation Engineering

Follow CalTrans Standards to Design a Freeway given 2 local roadways with lane amount and speed limit.

- Horizontal Alignment: create shoulder lanes, on and off ramps, lane lines, ramp meters, and centerline.
- Vertical Alignment: generate enough clearance for the elevation difference while constructing sags and crest with the given terrain.
- Parking Lot Design: follow ADA standards to design 90 degrees and angle parking given the dimension of lot.
- Traffic Signal Design: design an intersection using AutoCAD with traffic signal components, pole schdedules, and cost estimation.
- Traffic Impact Study: using SYNCHRO find the Level of Service for each intersection due to future project during peak hours and mitigrate them for a better performance grade.

Totogalpa, Nicaragua Water Distribution System - Fluid Mechanics

Research and design a system to distribute water to Totogalpa

- Calculate demand of water and pressure using peak hours.
- Figure best location for the placement of water tank using Google Earth for elevation.
- Research models of water tank require for the site.

Soil Report - Geotechical Engineering

Develop a soil report of Cal Poly Pomona

- Research site conditions such as topography, dainage patterns, vegetations, and geological features.
- Conduct laboratory testing such as sieve analysis, atterberg limits, consolidation test, and shear strength test to determine properties of soil.
- Prepare a written soil report using all the information gathered of the location.