

SAUL SILVER

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EDUCATION

Los Angeles Trade Technical College

B.S. Civil Engineering

Expected: May 2026

GPA: 3.69

EXPERIENCE

Civil Engineering Intern, HNTB, Los Angeles, CA

May 2024 - Present

- Created AutoCAD templates that cut roadway design time by 35% on projects involving intersections, grading, and drainage.
- Completed quantity takeoffs and cost estimates for pavement, concrete, and earthwork using Civil 3D and Excel.
- Worked with project managers and senior engineers to solve layout and construction issues, keeping 95% of design submittals on schedule.
- Recorded field survey data and inspection notes in project software

Undergraduate Research Assistant, Structural Engineering Lab, Los Angeles, CA

Jan 2024 - Present

- Built and tested reinforced concrete beams for strength and deflection studies.
- Ran structural tests using a load machine and strain gauges, with results within 8% of predicted values.
- Analyzed test data and crack patterns using MATLAB and presented results at a university research event.

PROJECTS & LEADERSHIP

Vice President, ASCE Student Chapter

Aug 2023 - Present

- Organized meetings, guest speakers, and field trips for civil engineering students.
- Coordinated volunteer events and helped grow club membership by 40%.
- Assisted with planning the annual ASCE concrete canoe and steel bridge team activities.

Sustainable Stormwater Management System, Senior Design Capstone

Jan 2024 - Apr 2024

- Designed a bioretention basin and permeable pavement system to reduce parking-lot runoff by 60%.
- Used HEC-HMS to calculate storm flows and size detention features for required storm events.
- Performed site surveys and created grading plans in Civil 3D to improve drainage and prevent flooding.

Traffic Signal Timing Optimization, Transportation Engineering Project

Jan 2024 - Mar 2024

- Analyzed traffic counts and signal timing plans for a congested corridor with five signalized intersections.
- Used Synchro and basic timing calculations to improve travel time and reduce delays by 18%.
- Prepared a short report recommending updated cycle lengths, offsets, and pedestrian intervals.

Bridge Load Rating Analysis, Structural Engineering Course Project

Sep 2023 - Dec 2023

- Modeled a 60-foot steel girder bridge in SAP2000 to determine load capacity.
- Calculated dead and live loads and determined the load rating factor (1.15) under AASHTO guidelines.
- Produced bridge drawings, including elevations, sections, and connection details.

SKILLS

- **Analysis:** Excel, MATLAB, Python, Minitab
- **Design:** AutoCAD Civil 3D, Revit, SAP2000, HEC-RAS, ArcGIS, MicroStation, OpenRoads