



Jacob S. Lopez  
Project Engineer

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## Education

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BS, Mechanical Engineering, Colorado School of Mines, 2021

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## Experience Summary

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Mr. Lopez is a Project Engineer with experience in mechanical engineering and structural concrete construction management. Projects include facilities managing mining waste, commercial purposes/affordable housing structures, and leading a construction quality assurance (CQA) team. In addition, Mr. Lopez has assisted in preparing underdrainage designs, overseeing labor reports, and working alongside structural engineers to implement vertical concrete formwork. Jacob is proficient in SolidWorks, MATLAB, ESS, AutoCAD Civil 3D, Microsoft Office, Mathcad REVIT, and LabVIEW.

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## Project Experience

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### *Civil*

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#### **STIBNITE GOLD PROJECT TAILINGS STORAGE FACILITY (TSF) | IDAHO**

Assisted with designing the underdrainage systems using Civil 3D and performed pipe crushing analyses. (Tierra Group, 2023 to Present)

#### **McLAUGHLIN MINE, TAILINGS IMPOUNDMENT FACILITY (TIF) | CALIFORNIA**

Developed supplemental material for facility closure and assisted with operational needs. (Tierra Group, 2023 to Present)

#### **EL LIMON MINE, SAN JOSE TSF | NICARAGUA**

Estimated material quantities based on a design change to the facility. (Tierra Group, 2023 to Present)

#### **GOLDSTRIKE MINE, NORTH BLOCK TAILINGS DISPOSAL FACILITY (NBTDF) STAGE 12 | NEVADA**

Assisted the client and contractor with the approval of construction documents. (Tierra Group, 2023 to Present)

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### *Project Engineering*

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#### **INTUITIVE SURGICAL INSTRUMENTS HEADQUARTERS | CALIFORNIA**

Performed field calculations and managed structural concrete pours exceeding 1,500 cubic yards (cy). Generated and presented labor and cost reports to senior management, forecasted labor trends, and mobilized crew. (Pacific Structures, 2022 to 2023)

#### **ARTISAN CROSSING | CALIFORNIA**

Managed the structural concrete elements for a multi-level affordable housing project. Created work plans for crew and management. (Pacific Structures, 2022)

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## Employment History

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<b>CURRENT EMPLOYER</b>	<b>TIERRA GROUP INTERNATIONAL, LTD.</b>
<b>POSITION</b>	Staff Engineer
<b>YEARS</b>	2023 to Present

<b>EMPLOYER</b>	<b>PACIFIC STRUCTURES INC.</b>
<b>POSITION</b>	Project Engineer
<b>YEARS</b>	2022 to 2023

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**Language Proficiency**

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English: Native