

## Cynthia Lu, PE

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6350 Christie Ave, Apt 101  
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### Skills

Structural Design:

CBC, ASCE, ACI, AISC

Structural Analysis Software:

ETABS, SAP2000

Engineering Drawing:

Revit, AutoCAD, Civil3D

Data Management:

Excel VBA

Other:

MATLAB, C++, SketchUp

### Education

University of California, Berkeley

M.S. Civil & Environmental

Engineering, May 2015

National Taiwan University(NTU),

Taipei, Taiwan

B.S. Civil Engineering, June 2014

### Certifications:

PE C89284

### Experience

#### **AECOM (Apr 2016-present)**

##### **Transportation Engineer-Structural**

San Francisco Bay Area Rapid Transit District, Hayward Maintenance Complex Maintenance and Engineering Shop, Hayward, CA.

- Analyzed the superstructure with ETABS to get column reaction for foundation design.
- Prepared schematic framing design of the two story metal building.
- Designed the foundation system of concrete spread footings and concrete slab on grade.
- Prepared engineering drawing with Revit.

Sacramento County Water Agency, Mather Improvements, Geotechnical Evaluation, and Remedial Design, Rancho Cordova, CA.

- Reviewed structural calculation and SAP2000 analysis model of dam spill way buttress wall.

Santa Clara Valley Water District, Anderson Dam Seismic Retrofit, Santa Clara County, CA. Project

- Designed concrete retaining wall.
- Reviewed structural calculation by other structural engineer.

San Francisco Bay Area Rapid Transit District, Hayward Maintenance Complex Central Warehouse, Hayward, CA.

- Created excel spreadsheets for concrete anchorage design, concrete spread footing design, concrete flexural member design, concrete retaining wall design.
- Analyzed and designed the foundation system, concrete spread footing at columns and concrete slab for first floor loading, under site condition where soil liquefaction exists with SAP2000.
- Prepared engineering drawing with Revit.

#### **AMC Consulting Engineers, Inc. (Mar 2016-Apr 2016)**

##### **Intern**

San Francisco Bay Area Rapid Transit District, Hayward Maintenance Complex Component Repair Shop, Hayward, CA.

- Reviewed structural calculation
- Reviewed shop drawing