

# Alireza Sheikh, MS, E.I.T

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## Education & Certifications

2009-2011 **University of California Los Angeles (UCLA)**  
*MS in Structural Mechanics (GPA 3.71)*

2007-2009 **California State University, Northridge (CSUN)**  
*Bachelor of Science in Civil Engineering, (GPA 3.8)*

### **Engineer-In-Training (EIT 134997)**

## Honors

- Magna Cum Laude at CSUN
- Tau Beta Pi Engineering Honor society

## Work Experience

July 2010 – present  
Los Angeles, CA

### **Dept. of Public Works, WCED, CITY OF LOS ANGELES**

#### Student intern

- Developed numerical study of an open channel model for a 100-foot sewer drop structure via ANSYS Fluent to determine effects of air pressure on sewer system.
- Designed Secondary Sewer Renewal Program projects (SSRP P21B & C08A) for the rehabilitation of 4.35 miles of sewer pipes (\$2.8 million).

June 2009- June 2010  
Malibu, CA

### **Echo-Tech Design Studio LLC.**

#### Intern Project Manager and Coordinator

- Managed and coordinated a team of five intern engineers for development of an eco-friendly HVAC system with solar heating and geothermal cooling.
- Prepared proposal for an eco-park whose design included wind turbines, passive design, waste composting, and solar water heating.
- Prepared specifications for a self-contained modular emergency housing for chemically sensitive people.

Mar 2008- Aug 2008  
Los Angeles, CA

### **KPFF Consulting Engineers**

#### Intern Engineer

- Assisted in preparation of construction documents for the extension of College of the Desert project including grading, utility, paving and other civil improvements.
- Performed feasibility study for the improvement of the Watts Corridor, including utility, water, sewer, storm drains, power and other utilities.
- Prepared sewer study of a proposed USC Master Plan.
- Performed hydrology study and prepared hydrology report for the Tarzana Village Walk project and Processed B- and E-permits.

## Computer Skills

**Auto Desk's AutoCAD and Civil 3D, CTC certified;** MicroStation  
MATLAB, Visual Basics  
Hydro Flow, Bentley Flow Master, TC Calc  
Risa-2D, Etabs, ABAQUS, ANSYS

## Qualifications

Knowledge of ACI 318M-08 and AISC Codes