

# Harrison Durbin, PE

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## Education

### MASTER'S

#### Civil Engineering

University of California,  
Berkeley

2015-2016 Berkeley, California

- Focus on acquisition and use of data to improve large-scale cyber-physical systems in the nation's top civil engineering program.
- Thesis on the feasibility of a novel, low-energy seawater desalination method.
- Member of Engineering Leadership Program.

### BACHELOR'S (with Honors)

#### Civil Engineering

Michigan State University

2000-2004 East Lansing, Michigan

- Offered research and teaching assistant opportunities as undergrad.

## Certifications

### Professional Engineer, Civil

2009-Present, C-75130 California

2020-Present, PE-19279 Hawaii

### Water Operator

2019-Present, T2 California

2021-Present, D2 California

## Engineering Skills

Capital Planning, Civil Design,  
Project Management, Potable  
Water, Wastewater, Storm-water,  
Pipelines, Reservoirs, Grading,  
Hydraulic Modeling, Hydrology,  
Construction Support, Asset  
Management, Trenchless  
Technology

## Technical Skills

GIS (Esri, QGIS)	●●●●●
ACAD/Civil3D	●●●●●
Microstation	●●●●○
Excel	●●●●●
Visual Basic	●●●●○
Python	●●●●●
SQL	●●●●○
HEC-RAS	●●●●○
EPANet	●●●●○
MS Access	●●●●○

## Experience

### COLORADO RIVER AQUEDUCT PLANT ENGINEER

#### Metropolitan Water District of Southern California

2021-Present

Parker Dam, California

- Sole local engineer overseeing Colorado River Aqueduct (CRA) projects for 5 pump plants and 242 miles of conveyance to ensure reliable drinking water supply from the 90-year old aqueduct system serving two million people.
- Main liaison between desert water operation and engineering to coordinate studies, capital and O&M projects, and flow optimization strategies.
- Hosted biweekly meetings giving concise updates on utility issues to key management including Chief Engineer.
- Researched, coordinated with stakeholders, and prepared major and minor CIP Proposals to secure funding of \$38M.

### SENIOR ENGINEER

#### City of Watsonville

2018-2020

Santa Cruz County, California

- Lead engineer for Water Department—involved in Master Planning, project management, coordination with consultants and O&M, and bid documents preparation.
- Managed implementation of Cityworks Asset and Maintenance software, ensuring inclusion of all City assets, service requests, and work orders.
- Prepared in-house design for water main replacement program (two miles per year).

### CAPITAL PLANNING ENGINEER

#### California Water Service Company

2017-2018

San Jose, California

- Prepared comprehensive infrastructure improvement plan documentation on-schedule for the Public Utility Commission, involving 1200+ capital projects totaling \$828M.
- Quickly promoted from a P-2 to a P-3 level engineer.
- Recognized company-wide by contributing time-saving Visual Basic scripts in both Word and Excel to efficiently automate repetitive tasks (e.g. generating and inserting cost estimates, redacting reports, emails).

### STUDIES ENGINEER

#### Atacama Water & Technology Ltda

2013-2014

Antofagasta, Chile

- Developed data-driven model incorporating scheduled maintenance for the largest desalination plant in South America to anticipate production rates and optimize cleaning.
- Analyzed historical customer emergency and staff responsiveness to determine critical trends and KPIs and presented in a monthly report.
- Worked closely with department heads to establish project management standards to improve organization and coordination between departments.

### STAFF ENGINEER & PROJECT ENGINEER

#### Kennedy/Jenks Consultants

2006-2010 & 2011-2013

Los Angeles, California

- Key-role in all project phases, specializing in water/wastewater and storm infrastructure: reservoir, pipeline, treatment plant, well, and pump station projects.
- Became design and project management expert for drawings, specs, cost estimates, and hydraulic models.
- Helped office become the most profitable with a yearly 95% utilization rate.

### ENVIRONMENTAL ENGINEER

#### Sustainable Solutions International Pty Ltd

2010-2011

Brisbane, Australia

- Modeled a complex system to balance water supply and demand for a 4000+ person eco-development in the Outback for Council approval.
- Prepared system models to size rain tanks for potable water use for isolated resorts.
- Wrote comprehensive site reports to obtain environmental permits from the EPA.