

# Harry Durbin, P.E.

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## Education

### MASTER'S

#### Civil Engineering

**University of California, Berkeley**

2015-2016 *Berkeley, California*

- Courses focused on the acquisition and use of data to improve large-scale system processes in the nation's top civil engineering program.

### BACHELOR'S

#### Civil Engineering

**Michigan State University**

2000-2004 *East Lansing, Michigan*

- Offered research and teaching assistant opportunities because of high academic performance.
- Presented mathematical concepts to a large audience of students as a teaching assistant.

## Certifications

### Professional Engineer (Civil)

California Board of Engineers & Surveyors  
2009-Present

### T-2 Water Treatment Operator

California SWRCB  
2019-Present

## Engineering Skills

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

## Technical Skills

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

## Work Experience

### SENIOR ENGINEER

**City of Watsonville**

2018-2020

*Santa Cruz County, California*

- Lead engineer for Water Department—coordinated with operation managers to prepare maintenance and capital project bid documents.
- In-house design for water main replacement projects, making up approximately two miles per year.
- Managed implementation of Cityworks Asset Management—ensured inclusion of all water operations assets in GIS and relevant service requests, work orders, and routine inspections.

### CAPITAL PLANNING ENGINEER

**California Water Service Company**

2017-2018

*San Jose, California*

- Served lead-role in preparing high-quality infrastructure improvement plan documentation on-schedule for the Public Utility Commission, involving 1200+ capital improvement projects in 23 districts totaling \$828 million.
- 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 & Tecnologia Ltda**

2013-2014

*Antofagasta, Chile*

- Developed data-driven model incorporating scheduled maintenance for the largest desalination plant in South America to allow management 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 civil design and project management specializing in water/wastewater and storm infrastructure: reservoir, pipeline, treatment plant, well, and pump station projects.
- Became an expert in design documentation—drawings (site layout, horizontal control, grading, yard piping, plan & profiles, details), specifications, cost estimates and hydraulic models.
- Contributed to making the LA Office one of the most profitable in the company with 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.
- Prepared system models to optimally size rain storage tanks for potable water use for isolated Great Barrier Reef resorts.
- Wrote well-structured site management plan reports for developments with activities that require environmental permits.