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**EDUCATION:**

Sacramento State University, Sacramento, CA Jan 2000  
Masters of Science, Water Resources Engineering

San Jose State University, San Jose, CA 1983  
Bachelor of Science, Meteorology  
Minor, Mathematics

**PROFESSIONAL EXPERIENCE:**

Department of Water Resources, State of California, Sacramento, CA, Water Resources Engineer  
Feb 2000-current

- Analysis of hydrologic data related to precipitation, snow fall, runoff, and reservoir storage
- Calculation and forecasting of full natural flow on a daily and monthly basis for all major Sierra rivers
- Produce reports on water supply conditions, regional and statewide full natural flow and precipitation rates, and snow water content from sensors and manual measurements
- Collaborate on and participate in peer review of full natural flow runoff forecasts for the April-July and water year periods
- Respond frequently to questions from the public, water agencies, and media
- Train new employees and students regarding the review of data, production of forecasts, and characteristics of river basins that affect the volume and timing of runoff
- Produce full natural flow forecasts for the Frenchmen, Davis, and Antelope basins in the upper Feather River region
- Assist with making Water Supply Index forecasts from which the Water Year Classification is determined

WNI/Oceanroutes, Palo Alto, CA Jan 1984-June 1996

- Provided routes for cargo ships to minimize exposure to icing, adverse winds and currents, hazardous navigation areas, freak waves, and heavy swell
- Produced Post Voyage Analyses that summarized the weather, currents, and speeds experienced during a ship's voyage.
- Determined if the reason for reduced performance of the vessel was weather-related
- Produced Mid-Voyage reports that summarized the performance of a vessel. Performance was measured by speeds in calm weather and by the fuel consumed per day.