

Alicia Qiu Cheung, EIT

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Summary

An adaptable EIT with knowledge in water quality assessment, design, modeling, and research. Excellent command of team leadership, initiation, and motivator.

Key Skills

- Effective technical and problem-solving skills
- Can work in a teaming environment and interface well with others
- Proficient in AutoCAD, InfoWater, InfoSewer, WaterCAD, ArcGIS, and Microsoft Office

Professional Experience

Staff Professional | Carollo Engineers

Phoenix, AZ | February 2019 – present

- Analyze water blending studies to determine water quality parameters and corrosion indices
- Collaborate to develop the Blue Plan-it® software that simulates water and wastewater design and processes
- Utilize hydraulic software to conduct water and wastewater master planning and hydraulic projects
- Prepare cost analyses for water and wastewater projects
- Write technical reports and memoranda and join meetings with clients
- Prepare presentations for internal and external meetings

Water/Wastewater Engineering Intern | HDR, Inc.

Las Vegas, NV | August 2018 – August 2019

- Prepared cost analyses for wastewater projects and contact manufacturers
- Wrote technical reports and memoranda, as well as join meetings with agencies and contractors
- Utilized Civil 3D to design a pipe network system in 2D, which will be used to create a 3D model

Engineering Infrastructure Intern | Las Vegas Valley Water District

Las Vegas, NV | August 2015 – August 2018

- Utilized hydraulic models and apply engineering to analyze and review fireflow analyses, hydraulic grade line requests, and water plan packets to ensure they meet specifications
- Redlined drawings and join meetings with engineers during the review process
- Performed field activities and compiled daily water quality data with excel and SCADA

Graduate Assistant | University of Las Vegas, Nevada

Las Vegas, NV | August 2017 – June 2018

- Researched post-aeration treatments and disinfection by-products in potable water distribution system. This topic led my thesis investigation on DBPs removals from water and the associated air-phase interaction
- Communicated and provided technical information to professors, students, and a non-technical audience
- Utilized spectrophotometer, ozone generator, and gas chromatography–mass spectrometry

Calculus Tutor | College of Southern Nevada

Las Vegas, NV | May 2014 – October 2015

Education & Certifications

University of Arizona Coding Boot Camp

Attaining Spring 2021

M.S Civil & Environmental Engineering | University of Nevada, Las Vegas

Attained summer 2019 | GPA: 3.80/4.00

B.S Civil & Environmental Engineering | University of Nevada, Las Vegas

Attained summer 2019 | GPA: 3.80/4.00

Course Highlights: Water Treatment and Reuse, Environmental Water Chemistry and Analysis, Advanced Physicochemical Methods for Water Treatment Design, Research Methods, Biochemical in Wastewater Treatment, Water Resources

Licensure: Engineer-in-Training #: 0T7691

January 2017

Leadership Experience

Treasurer - American Society of Civil Engineers, Student Chapter

June 2016 – June 2017

President of Events - American Society of Civil Engineers, Student Chapter

June 2015 – June 2016

Awards & Honors

CA-NV AWWA Master's Thesis First Place (2020), Water Reuse Scholarship (2019), Southern Nevada International Code Council Scholarship (2016, 2017, 2018), NAWIC Scholarship (2016,2017), ASCE Southern Nevada Branch Scholarship (2016)