

**PROFESSIONAL EXPERIENCES AND REFERENCES**

**01/2021 - Present Graduate Culminating Project, San Diego State University San Diego, CA**

- The project (titled: *A Comparison of Conventional and Cybernetic Hydrologic Balance Models for Three Basins in California*) involved: the acquisition and manipulation of large remotely sensed hydrologic datasets, the use of computer programs (MATLAB, ArcMap, and HTML), and writing a technical report.
- Currently, Professor Ponce and I are preparing the associated report for publication.
- This experience familiarized me with the complexities of managing a project in a timely manner as well as gave me insight into the proper implementation of hydrologic balances.

**03/2021 – 06/2021 Consultant, Self Employed Remote**

- I worked as a consultant for a proposed 10.5’ x 60’ span steel bridge near Laytonville, CA.
- As a consultant I developed a hydraulic model, and report, to estimate the impact of the proposed bridge on Streeter Creek under Q<sub>100</sub> flood flow conditions.
- As a result, I am familiar with the HEC-RAS reference manual and CDFW bridge guidelines.

**05/2018 - 08/2019 EIT, LNV Inc. Corpus Christi, TX**

- My main responsibility at LNV was to develop a hydraulic wastewater model Tyler, TX.
- I used SewerGEMS, GIS, rain and sewer gauge data, and as-builts to build the hydraulic model.
- Developing a city-wide interactive model familiarized me with the complexities and challenges of modeling and improving a typical wastewater distribution system.
- As part of my corollary duties at LNV: I developed multiple figures and tables, communicated with clients, wrote a technical modeling report, developed modeling schedules and budgets, and wrote an internal modeling instruction manual.

**05/2015 - 08/2015 Intern, CH2M Omaha, NE**

- This job entailed inputting information from city quarter sections into a GIS model as well as conducting habitat assessments of local streams.
- This position helped spark my interest in water and wastewater distribution systems.
- Served as an introduction to consulting, data collection, and the general on-goings of a civil engineering firm.

**EDUCATION AND CERTIFICATIONS**

05/2021	<b>M.S. in Civil Engineering</b> GPA: 3.43	From: San Diego State University
06/2021	<b>EIT Certification</b>	By: California Board for Professional Engineers, Land Surveyors, & Geologists
06/2018	<b>EIT Certification</b>	By: Texas Board for Professional Engineers
05/2018	<b>B.S. in Civil Engineering</b> with a Minor in Business	From: University of Nebraska-Lincoln
06/2015	<b>OSHA 10 Certified</b> (Construction Safety and Health)	By: OSHA

**AWARDS AND MEMBERSHIPS**

Gates Millennium Scholar | Member of the Society of Hispanic Professional Engineers

<b>COMPUTER PROGRAMS I HAVE EXPERIENCE IN</b>		<b>SKILLS AND HOBBIES</b>
<b>Programs</b>	<b>Proficiency Level</b>	
SewerGEMS and Microsoft Suite	Advanced	• Fluent in Spanish
HEC-RAS, ArcMap (GIS), SWMM, MATLAB	More than Proficient	• Decent handyman
HTML, Civil 3D, AutoCAD, MODFLOW Flex	Proficient	• Avid documentary watcher
		• Amateur cook and hiker

**\*\*\*CONTACT FOR REFERENCE CONTACT INFORMATION\*\*\***