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| Education | | | |
| ***Major: B.S. in Chemical Engineering***  **University of Florida, Gainesville FL**  **GPA: 3.81** | | | Spring of 2020 |
| Experience | | | |
| **CDM Smith,** Environmental Engineer  Denver, CO | | | May 2020-Present |
| * **Assistant Project Technical Lead for $60-Million water treatment plant expansion in Austin, TX (Ongoing)** * Leading coordination efforts between disciplines with a focus on managing subconsultants known to provide poor work packages. * Developing workflows and instructing project team on the use of new workflows and design tools. * Leading the design of the on-site sodium hypochlorite generation system. * **Chemical Systems Design Engineer for $50-Million water treatment plant expansion in Longmont, CO (Ongoing)** * Designing the expansion of 7 chemical systems to double the plant’s water treatment capacity. * Consistently engaging internal resources by redelegating workloads to fit the needs of the team and creating new workflows simplifying processes. * Took initiative to understand and manipulate 3D model files to fill the gap of insufficient modeler resources, therefore streamlining the design process. * Consolidated information for client presentations and emails to provide only critical details needed to expedite decision making. * **Chemical Systems Design Engineer for new $170-Million water treatment plant in Georgetown, TX** * Completed chemical system design of 7 chem systems on time, when the prior design lead abruptly resigned. * At the 90% design milestone the client requested that a new chemical system be designed, for which our consulting firm had no intellectual property regarding. In response, I drastically expedited vendor coordination, chem system design, multidiscipline coordination, and design documentation production to meet target deadlines. * **Supporting Data Analysis Engineer for $100k water reuse study in Castle Rock, CO** * Assisted in the data cleaning process of 20,000 rows of water quality data. * I cleaned data, developed Power Queries generated Pivot Tables, and analyzed the data. Taking the representative data from the analyzed set I developed a mass balance model using VBA code, to determine the feasibility of the design. | | | |
| **IPPD,** Process Engineer  Gainesville, FL | | | August 2018 – May 2019 |
| * Developed optimization process that resulted in the recommendation of auto flushing devices, with an estimated 10-year combined ROI of $290,000 * Developed chlorine decay model for client’s water distribution system, using the WaterGEMs software * Facilitated and tailored numerous presentations to diverse audiences, from stakeholders to the general public * Prepared 3 full-length design reports for the client, Gainesville Regional Utilities | | | |
| **CDM Smith,** Water/WastewaterIntern  Jacksonville, FL | | | May 2018-August-2018 |
| * Provided operational support for water reuse pilot plant; took water samples, conducted analytical test, and performed general maintenance. * Prepared the City of Jacksonville, FL for their FEMA audit by identifying site specific characteristics, using ArcGIS, to review/correct +1000 permitting documents. | | | |
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| Leadership | | | |
| **American Water Works Association (AWWA)**  President | | July 2018- May 2019 | |
| * Networked with water/wastewater professionals in the water/wastewater field to connect student members to opportunities such as conferences and social events. * Coordinating the annual model water tower competition. | | | |
| **Mu Sigma Epsilon (UF’s Material Science & Engineering Club)**  Executive officer: Benton Engineering Council Ambassador | | | April 2016-May 2017 |
| * Communicated pertinent information and ensured club compliance with council regulations. * Planed and organized club events like PI Day and participation in UF Engineering Fair. | | | |
| Skills   * SketchUp W/ 3Skeng * Navisworks * BIM 360 | * Basic VBA, MATLAB, and Python * Microsoft Office Suite | | Awards   * Eagle Scout |