Sam Wuellner

2246 Santa Ynez Ave, San Luis Obispo, CA 93405

(913)827-2761

swuellne@calpoly.edu

**EDUCATION**

**California Polytechnic State University (Cal Poly),** San Luis Obispo, CA

Bachelor of Science in Environmental Engineering, expected June 2020

GPA: 3.46, Dean’s List Award Winter 2017 & Fall 2017

**RELEVANT COURSES**

Mechanics of Materials, Fluid Mechanics, Process Thermodynamics, Water Quality Measurements, Water Resource Engineering, Noise & Vibration Control, Hydraulics Engineering Laboratory

**PROFESSIONAL EXPERIENCE**

**Cal Poly WERC Design Competition Team**

Sep. 2018–Present

* Currently designing and building a freeze crystallizatizer to recover pure water and salt from hyper-saline mine water to present for judges in April at the 29th WERC (Waste-Management Education Research Consortium) Competition
* Gaining understanding of HVAC systems and heat transfer to build freeze crystallizer that meets extensive criteria

**Wastewater Treatment Engineering Intern at the City of San Luis Obispo**

June 2018-Sep. 2018

* Monitored water quality, operating equipment, gauges, and meters at the San Luis Obispo Water Reclamation Resource Facility
* Sampled water daily for alkalinity, chlorine and sodium bisulfate concentration, suspended solids, etc.
* Collaborated with design firms discussing the remodeling of the plant occurring this year
* Analyzed wastewater plant design drawings with operators and discussed how the update will change the daily jobs of operators

**U.S. Department of Energy Algae Biofuels Research**

March 2018-June 2018

* Worked for the Cal Poly Water and Energy Sustainability Team which is a research team funded by the U.S. Department of Energy tasked with finding new methods of production and utilization of algae biofuels
* Tasked with analyzing algae strains to find potential microbial threats to algae that would inhibit production

**ACTIVITIES**

**Kappa Sigma Rush Chair,** *Elected Chair,* Sep. 2018-Present

* Managed a rush committee of 30 members of the fraternity, delegating jobs and tasks to other members to ensure complete preparation for rush events

**Society of Environmental Engineers,** *Member*, Sep. 2017-Present

**Kappa Sigma Fundraising Chair,** *Elected Chair,* Sep. 2016-June 2017

**SKILLS**

**Computer**: AutoCAD, Excel VBA Programming, Microsoft Office Applications, Minitab