

Joseph Lohmann, E.I.T.

perrylohmann@gmail.com 530-313-8172
Denver, Colorado

OBJECTIVE	<p>Dedicated and diligent engineer seeking an entry-level position to further improve my engineering skills. I am eager to work and learn from industry professionals and advance my career along the way.</p> <ul style="list-style-type: none">• Real-world experience working as an intern with the engineering team at South Platte Water Renewal Partners.• Experience with modeling and programming through my internship, coursework, and self-study.• Passionate about the environment and working towards being an impactful engineer.
EDUCATION, TRAINING, AND SKILLS	<ul style="list-style-type: none">• B.S. Ecological and Environmental Engineering, Oregon State University. (June 2019)• Senior Design Project: Roof runoff metals filtration system. Designed a portable filtration system and put together technical memos and final report for our client in Portland, OR.• Awarded Engineering in Training (E.I.T.) March, 2020. EI.0077011• Skills: Python, MATLAB, ArcGIS, HEC-RAS, HEC-HMS, Microsoft Excel, Word, and PowerPoint
PROFESSIONAL EXPERIENCE	<p>South Platte Water Renewal Partners (Now South Platte Renew) Englewood, Colorado (September 2019 – March 2020)</p> <p>Engineering Intern</p> <p>South Platte Water Renewal Partners is the 3rd largest wastewater treatment facility in Colorado, treating approximately 20 MGD of residential and industrial waste for a service area of 300,000 people.</p> <p><i>Engineering Intern General Duties</i></p> <ul style="list-style-type: none">• Worked on a team of five• Exercised time management and multi-tasking with multiple projects at a time• Close coordination with vendors, operations and maintenance, and engineering to complete projects <p><i>Facility Record Drawing Improvements – Project Manager</i></p> <ul style="list-style-type: none">• Successfully organized CAD drawings from all major projects into a common directory• Programmed several Python scripts to assist in file renaming and directory organization <p><i>Stream Temperature Modeling and Visualization – Project Manager</i></p> <ul style="list-style-type: none">• Developed a Python script to compile data from stream temperature loggers and create a visualization for current stream temperature based on a regression model• Researched and coordinated with model authors to determine the best fit model to use• Utilized QUAL2Kw to evaluate the concern for future violations of a stream temperature permit <p><i>Nitrification Rate Study and Jar Testing – Engineering Support</i></p> <ul style="list-style-type: none">• Conducted a lab experiment to determine our nitrifying bacteria's maximum nitrification rate• Assisted in jar testing for several projects including coagulant testing for chemical phosphorus removal and using beer waste for denitrification <p><i>Disinfection Chloramine to Chlorine Investigation and Implementation – Engineering Support</i></p> <ul style="list-style-type: none">• Authored a technical report to detail chloramine and chlorine disinfection chemistry, and the switch of processes complete with a cost analysis• Led the effort to purchase and install chlorine analyzers for the process change• Oversaw coordination with maintenance, vendors, and engineering to determine logistics <p><i>HydroFLOW Pilot for Struvite Mitigation – Project Manager</i></p> <ul style="list-style-type: none">• Headed the pilot project to test the effectiveness of HydroFLOW in preventing struvite scaling• Authored a technical memo summarizing struvite chemistry and results from the pilot