

Brayden Leach

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PROFILE

Dedicated, energetic, effective leader with a strong work ethic, great people skills, and ability to build and develop strong teams. Looking to develop my skills and pursue my professional engineer license with a successful organization utilizing my work experience and education.

EDUCATION

Humboldt State University, Arcata, CA

Expected May 2020

Bachelor of Science, Environmental Resources Engineering, *ABET Accredited*

Relevant Courses: Fluid Mechanics, Applied Hydraulics, Water Quality and Environmental Health, Hydrology, Transport Phenomena, Groundwater Hydrology and Remediation, Wastewater Treatment Engineering

WORK EXPERIENCE

Six Rivers National Forest, Eureka, CA, *Pathways Engineering Intern (GS4)*

April 2019-Present

- Surveyed road failures and created road logs for future maintenance
- Model road failures and design geotechnical solution in AutoCAD
- Worked under forest engineer to put together public works and maintenance contracts
- Assisted in contract administration for transportation engineering contracts

Certifications: Contracting Officer Representative 1, Transportation Planning Basics

Tyler Hill Camp, Tyler Hill, PA, *Robotics/3D Printing Specialist*

June-August 2018

- Met with advisors and counselors weekly to improve upon tactics in technological education
- Met with advisors and counselors weekly to improve upon tactics
- Managed the technology education department for a camp of over 300 students

ENGINEERING PROJECTS

Water Quality Analysis of Jacoby Creek

Class Project: Water Quality and Environmental Health

Spring 2018

- Conducted a water quality analysis of the Jacoby creek near Arcata, CA to observe water quality effects of residential agriculture and urbanized runoff
- Parameters included BOD5, Turbidity, Salinity, Total and fecal coliforms values compared to state and federal MCLs for drinking water

Valley Runoff Effects on the Sacramento and San Joaquin Rivers

Fall 2018

Class Project: Environmental Modeling and Data Analysis

- Analyzed historical data to compare the Sacramento and San Joaquin valley runoff to the respective river discharge rates and gage height
- Employed RStudio to fit datasets to four distributions using the Kolmogorov-Smirnov test
- interpreted results to predict the probability of a “wet year” based on USGS criteria for such an event

LEADERSHIP EXPERIENCE

Cross Country/Track and Field, Humboldt State University, *Captain*

August 2017-Present

- Created team bonding opportunities to boost morale and performance
- Communicated collective team issues to coaching staff to benefit team culture
- NCAA All American Honors in the 800 meters

RELEVANT SKILLS

Software: Fortran, RStudio, AutoCAD, Microsoft Office, HY-8, HEC-HAS, HEC-RAS, ArcMap

Testing: BOD5, Turbidity, Salinity, ASTM E8 Tensile

Hydrogeology: EPA Process for remediation, Site Characterization, Surveying using level instrument

**References available on request*