ETHAN MITCHELL

Civil Engineering Intern

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in LinkedIn

WORK EXPERIENCE

Research Assistant

University of California

📅 2022 - current   📍 Berkeley, CA

- Created ultra-modern models for an urban residential housing project using MATLAB that could save 19% on costs
- Proposed water system supply upgrade using EPANET analysis to identify water flow faults, which **reduced monthly wastage by 17%**
- Visualized designs and workflows on GIS for a public park renovation, ensuring 99% estimation accuracy for labor and materials
- Introduced an e-filing system for research materials that resulted in a 36% boost in retrieval time

PROJECTS

EcoSite

Team Member

📅 2021

- Ensured compliance with Clean Water Act by building bioretention basins for runoff water
- Revised design model after a SAP200 site analysis to reduce runoff by a 68% margin
- Developed and implemented a rain garden to sustainably reduce instances of flooding to a 3% probability
- Conducted flooding awareness workshop for students and faculty members, which **improved disaster preparedness by 71% as per survey feedback**

BridgeSafe

Observer

📅 2020

- Established bridge's stability status using Plaxis to recommend reinforcements to improve longevity by 11 years
- Combined structural analyses on GeoStudio to create a single bridge repair model that could potentially **save 21% in costs**
- Deployed strain gauges to provide real-time structural health assessment, which reduced time spent by a 37% margin
- Analyzed bridge redundancies and accurately identified areas that needed retrofits

CAREER OBJECTIVE

Budding civil engineer intern looking to secure a civil engineering position in a dynamic and progressive organization like TranSystems, where I can apply my theoretical knowledge, technical skills, and passion for infrastructure development.

EDUCATION

Bachelor of Science
Civil Engineering

University of California, Berkeley

📅 2020 - current

📍 Berkeley, CA

SKILLS

- AutoCAD
- Revit
- SAP2000
- GIS
- MATLAB
- Primavera P6