

OLIVIA KING

Senior Civil Engineer

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📍 San Francisco, CA

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WORK EXPERIENCE

Senior Civil Engineer

Langan Engineering and Environmental Services

📅 2022 - current 📍 San Francisco, CA

- Produced detailed construction documents and shop drawings in AutoCAD, contributing to a 19% decline in construction change orders.
- Used BIM methods with Vectorworks Architect, minimizing clashes in the design phase and cutting 16% of RFIs (Requests for Information) during construction.
- Formalized finite element analysis techniques in RISA-3D to optimize the structural performance of a cantilever bridge, boosting load-carrying by 31%.
- Incorporated Primavera P6 with Building Information Modeling (BIM) software, reducing clash detection issues during construction and *saving \$726,534 in rework costs*.

Project Engineer

Parsons Corporation

📅 2019 - 2022 📍 Pasadena, CA

- Merged MapInfo Professional with project management systems for real-time visualization of project progress, lowering reported coordination errors by 29%.
- Developed a risk management plan for a \$24M transportation project, resulting in an *11% boost in stakeholder satisfaction*.
- Integrated smart building technologies for project facilities, achieving a \$6,818 decrease in utility expenses.
- Established Procore's mobile app for field reporting, reclaiming 2 hours per on-site staff which averted potential delays.

Technician

Applied Materials, Inc.

📅 2016 - 2019 📍 Santa Clara, CA

- Implemented maintenance strategies with MIKE FLOOD for water treatment systems, slashing planned downtime which saved the team 450+ hours.
- Conducted root cause analysis for quality issues, leading to a 34% cut down in customer complaints.
- Leveraged Faro equipment to perform alignment checks on wafer processing machines, downsizing alignment errors by 11%.
- Optimized transportation routes through ArcGIS Pro's network analysis tools, *shrinking annual fuel costs by \$14,563*.

EDUCATION

Bachelor of Science

Civil Engineering

Stanford University

📅 2012 - 2016

📍 Stanford, CA

SKILLS

- AutoCAD
- Vectorworks Architect
- MapInfo Professional
- RISA-3D
- Procore
- MIKE FLOOD
- Faro
- Primavera P6
- HEC-HMS
- ArcGIS Pro