Charles T Crowe

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Highly accomplished Licensed Architect and BIM expert with 9+ years of experience in leading complex technical programs and optimizing infrastructure projects within mission-critical environments, including high-performance teams at Tesla. Proven ability to drive workflow efficiencies, foster cross-functional collaboration, and ensure successful delivery of large-scale initiatives, aligning with Google's focus on global data center operations.

WORK EXPERIENCE

TESLA - Senior Architect / Interim BIM Lead - Dec 2023 - Present
- Created new KPI mapping system to track factory utility use and efficiency across Fremont Factory, allowing for better cost analysis of projects for leadership review
- Developed and implemented new layouts to significantly enhance operational security, directly incentivizing our executive team to prioritize my site for new program introductions over other potential locations
- Led program initiatives to optimize building models, resulting in an 80% reduction in model crashes and an annualized saving of 2000+ hours in project delivery, demonstrating strong program efficiency
- Reduced project creation times by 40% through optimized team processes, enhancing operational efficiency.
- Issued 100+ interdisciplinary design packages annually, ensuring constructability and city approval for mission critical projects.
- Orchestrated the design and deployment of in-house network operations projects, enhancing infrastructure efficiency and safety. Key contributions included vendor coordination for hot aisle containment, optimized rack layouts, and critical fire and life safety improvements
- Directed cross-functional program to overhaul clash detection across engineering disciplines, decreasing Requests for Information (RFIs) by over 30% and accelerating project timelines

Mark Cavagnero Associates - BIM Manager - March 2021 - Dec 2023
- Designed custom automation tools to build detail libraries, improving user efficiency by 25%.
- Modernized the Manual of Practice, integrating ISO standards, resulting in faster project approval cycles.
- Mentored staff at all levels on industry standard utilization, and design processes in weekly training sessions.

Shah Kawasaki Architects - Job Captain - Oct 2019 - March 2021
- Developed design packages for 6 Fire Stations around the Bay Area.
- Spearheaded facility improvement designs for University of California offices

RIM Architects - Job Captain / BIM Lead - June 2016 - Oct 2019
- Standardized design documentation across 6 offices, ensuring consistency and efficiency in the Pacific Region.
- Mitigated significant project delays by relocating to Hawaii for a major 5-star hotel redesign, resulting in the successful recovery of 6 months on the project timeline.

CERTIFICATIONS
CA Licensed Architect
LEED Green Associate

EDUCATION
Cal Poly SLO
Bachelors of Architecture
Graduated June 2016

SKILLS
Modeling Tools
- Revit
- Dynamo
- Rhino
- Grasshopper
- Sketchup
- Solidworks
- Adobe Creative Suite

Programming Languages
- C#
- Revit API
- C++
- Python
- HTML
- Javascript

Coordination Tools
- Bluebeam
- Jira
- Procore