

ZACHARY HOFFMAN

Phoenix, AZ

(623) 465-1313 | zachhoffman7201@gmail.com | [LinkedIn](#)

PROFESSIONAL SUMMARY

Results-driven Mechanical Engineer with hands-on experience designing and analyzing critical systems for high-impact projects in infrastructure. Proven ability to lead cross-functional teams, execute design validation cycles, and deliver reliable solutions under strict deadlines. U.S. citizen with active eligibility for DoD security clearance, committed to advancing national security through technical excellence.

EDUCATION

Grand Canyon University, Phoenix, AZ

Bachelor of Science in Mechanical Engineering — *April 2023*

- Relevant Coursework: Mechanical Design, Thermodynamics, Solid Mechanics, Fluid Dynamics, Systems Engineering
 - Honors: President's Scholarship
-

TECHNICAL SKILLS

- Mechanical Design & Analysis: SolidWorks (CSWA), AutoCAD, GD&T, Tolerance Analysis, Design for Manufacturability (DFM), Root Cause Analysis
 - Simulation & Validation: FEA (basic), Engineering Statics, Structural Load Testing(basic)
 - Software Tools: MATLAB, Microsoft Excel (VBA), ProjectWise, Bluebeam, Procore, HTML/CSS (basic)
 - Clearance: U.S. Citizen | DoD Security Clearance Eligible
 - Soft Skills: Team Leadership, Cross-Functional Collaboration, Agile Project Execution
-

ENGINEERING EXPERIENCE

WSP USA, Phoenix, AZ

Assistant Consultant – Mechanical Systems — *June 2023 – Present*

- Delivered 3D piping designs for wastewater treatment systems supporting a \$45M infrastructure project; ensured compliance with mechanical codes and inter-discipline constraints.
- Managed a \$1M mechanical engineering scope by coordinating design reviews, tracking milestones, and supporting risk mitigation strategies in field operations.
- Implemented QA/QC protocols using ProjectWise to streamline deliverable reviews and reduce design-change turnaround time by 25%.

Capstone Design Project – Mechanical Lead, Grand Canyon University

Sept 2022 – April 2023

- Spearheaded end-to-end design of an autonomous ground vehicle for terrain navigation; integrated motion control, sensor feedback, and mechanical packaging.
- Executed structural analysis and prototype development using SolidWorks and 3D printing; validated structural performance under dynamic load testing.
- Led Agile-style sprints across a 4-member team to meet all technical milestones on schedule and under budget.

OTHER EXPERIENCE

Troon Country Club, Scottsdale, AZ
Operations Associate — *Jan 2022 – Oct 2023*

- Increased operational throughput by 20% by optimizing guest logistics workflows and redefining shift-task distribution models.
- Mentored and trained five new team members to meet service KPIs and club protocol standards.

Burger King, Phoenix, AZ
Assistant Manager / Crew Lead — *2017 – 2021*

- Managed 10+ team members per shift; reduced labor inefficiencies by implementing shift balancing techniques during high-volume service periods.
- Trained entry-level employees in SOP adherence and team coordination, supporting store-level performance targets.

LEADERSHIP EXPERIENCE

Project Lead – Operational Efficiency, WSP USA
Sept 2023 – Present

- Developed and deployed a standardized framework for project handoffs that reduced cross-team onboarding time by 30% and improved deliverable traceability.

Team Captain – Capstone Self-Setup Table Project
2022 – 2023

- Orchestrated sprint-based development and technical documentation practices; ensured team accountability through milestone tracking and performance reviews.
- Increased team productivity by fostering a peer-feedback culture and organizing team check-ins aligned with project phase gates.

CERTIFICATIONS & AFFILIATIONS

- SolidWorks Certified Associate (CSWA)
- Member, American Society of Mechanical Engineers (ASME)

INTERESTS

Defense Systems Engineering | Robotics & Autonomy | Mechatronic Systems | Tactical Technology | Renewable Energy | Aerospace Prototyping