

Robert L. Henderson

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PROFESSIONAL SUMMARY

Senior Dismantling Engineer with over 12 years of experience planning the deconstruction of large-scale industrial facilities. Proven track record of reducing project timelines by 15% through optimized sequencing while maintaining a zero-incident safety record. Expert in hazardous material remediation and asset recovery strategies for Fortune 500 manufacturing clients.

WORK EXPERIENCE

Senior Dismantling Engineer | Apex Industrial Decommissioning | Houston, TX

May 2018 - Present

- Managed a \$12M decommissioning project for an offshore oil platform, finishing 10% under budget through strategic asset liquidation.
- Developed proprietary deconstruction sequencing software that improved onsite operational efficiency by 18%.
- Supervise a team of 4 junior engineers and 40 field technicians, ensuring 100% compliance with OSHA and EPA regulations.
- Negotiated scrap metal contracts that increased project revenue by \$850,000 via direct-to-mill partnerships.
- Conducted over 50 detailed structural surveys for high-risk manufacturing sites across the Gulf Coast region.

Project Planning Engineer | Titan Demolition & Salvage | Dallas, TX

Aug 2013 - Apr 2018

- Spearheaded the dismantling of a 500,000 sq. ft. automotive assembly plant, recovering 95% of structural steel for reuse.
- Reduced hazardous waste disposal costs by \$120,000 by implementing an on-site soil remediation system.
- Created comprehensive 3D deconstruction simulations using BIM to identify potential structural collapse risks before work began.
- Successfully maintained a zero Lost Time Incident (LTI) record over 250,000 total man-hours.
- Facilitated weekly safety briefings and technical training sessions for multi-craft demolition crews.

Junior Field Engineer | Structural Solutions Inc. | Austin, TX

Jun 2010 - Jul 2013

- Assisted in the planning of 15 commercial building dismantling projects in dense urban environments.
- Provided daily onsite monitoring of vibration and noise levels to ensure compliance with city ordinances.
- Drafted detailed technical reports and site maps for senior engineers using AutoCAD.
- Verified the isolation of all utilities and hazardous energy sources before deconstruction activities commenced.

EDUCATION

University of Texas at Austin | Master of Science | Structural Engineering

Sep 2008 - May 2010

Texas A&M University | Bachelor of Science | Civil Engineering

Sep 2004 - May 2008

SKILLS

Structural Analysis, AutoCAD & BIM Modeling, Resource Recovery Planning, Hazardous Materials Remediation, Heavy Machinery Coordination, Seismic Load Calculations, OSHA Regulatory Standards, Project Budgeting & Estimating, EPA Waste Management Protocols, Vendor & Subcontractor Management, Site Safety Auditing, Critical Path Method (CPM)

CERTIFICATIONS

Professional Engineer (PE) License | Texas Board of Professional Engineers (Mar 2014)
OSHA 40-Hour HAZWOPER | Safety Training Services (Nov 2011)

LANGUAGES

English (Native)
Spanish (Professional Working Proficiency)

ACTIVITIES

National Association of Demolition Professionals (NADP)

Active member contributing to the development of new safety standards for industrial dismantling.

American Society of Civil Engineers (ASCE) Conference

Regular attendee and guest speaker on topics of sustainable deconstruction and material circularity.