

# ROBERT WILLIAMSON

*Product Engineer*

📍 Rancho Cucamonga, California

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🌐 LinkedIn Profile

## Core Competencies

- Civil Engineering
- Structural Optimization
- Mining Stress Analysis
- Product Design
- Mechanical Engineering
- Drilling Geology
- Exploration
- Finite Element Analysis

## Technical Summary

### Applications



- Microsoft Word
- Excel
- PowerPoint
- Publisher
- Project
- Outlook
- Access

### Computer-Aided Design



- CATIA V4
- CATIA V5
- I-DEAS
- Pro-Engineer
- UNIGRAPHICS
- AutoCAD

### Finite Element Analysis



- NASTRAN
- ANSYS
- ABAQUS
- FEMFAT
- HyperCrash
- HyperMesh
- Optistruct
- Patran
- Radioss
- SimLab
- FE-Safe
- CF Design

### Boundary Element Method

## Summary

Industry expert in Structural Engineering with excellent understanding of Drilling and Exploration techniques, Geology, and mechanical equipment used in underground and open pit mining operations. Safety focused with analytical approach to using numerical simulations to predict the behavior of underground excavations.

- Comprehensive knowledge of Finite Element Analysis techniques using a variety of software, as well as strong math and physics skills.
- Ensure smooth business operations by following projects from conceptualizing phase to completion, including system design, incorporation of customer needs, and technical support.

## Work experience

2000 - 2008

### Fea Engineer

POWERTRAIN (FORMER INDUSTRIES INC.)

Developed structural finite element analysis (FEA) simulations and design optimizations. Managed file translations and drawings updates. Participated in product design on Honda projects. Developed solutions for FEA problems using variety of software applications. Organized structural FEA procedures for Ford flex plate group. Technical expert in stamping, mechanical, CAD and FEA issues. Developed new technologies in order to produce better, safer and less expensive products. Technical counselor on highly technical issues for the plants.

#### ***Accomplishments:***

- Helped with CAD and FEA quoting for a stamped valve cover for Company resulting in project work of over \$1M.
- Saved over \$200K in tooling rework through numerical simulations.
- Created FEA simulations in the prototype phase and saved \$70K.

1995 - 2000

### Product Engineer

PRODUCTS - CITY, STATE

Developed structural FEA simulations and design optimizations. Worked on-site in Detroit with Jeep Truck Engineering Group on Chrysler KJ 2002 program product design. (brought in jobs for the Company in value of over \$1M). Product Engineer tasked to follow up on a new product from its inception, going through subsequent CAD modifications, FEA simulations, to completion as a final product on the plant floor. Updated production plants with any changes for a specific product.

#### ***Accomplishments:***

- Secured over \$1M in project work for the company.

## Education

Bachelor of Science, Mechanical Engineering  
University

Open Cast Mining and Quarrying – CESECO  
Mining School

## Career Development

- NASTRAN/PATRAN
- ABAQUS
- CATIA V4
- RADIOSS, CFD – Fundamentals
- FE-Safe

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