

ROBERT WILLIAMSON

Product Engineer

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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
- RADI OSS, CFD – Fundamentals
- FE-Safe

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The EM Guide to Effective Resumes Michael L. Redd,2004 **Become a Nurse in United States ~ Ten Steps Guide** Mike Rosagast,2009-09-09 Critical guide to become a nurse in USA All steps and sub steps you need to register for your NCLEX and take the exam to all others steps needed for your education credentials evaluation NCEX CGFNS prep and registration nurse license verification openings relocation ATT and Person Vue exam scheduling and 100 s of hospitals to contact for employment and much more for your sucessfull relocation to USA This Ten Steps Guide is must accompanion for all recently graduated nurses and international ones seeking relocating to U S A *The Resume.Com Guide to Writing Unbeatable Resumes* Warren Simons,Rose Curtis,2003-08-22 The nation s 1 online resume service offers its exclusive advice on how to craft a winning resume The Resume com Guide to Writing Unbeatable Resumes draws upon the author s considerable expertise as well as the vast Resume com database to arm job seekers with Sample resumes for every profession and job category at every level from entrylevel to executive A comprehensive database of keywords arranged by industry Electronic job hunting advice and strategies with tips on how to make any resume stand out online A detailed Before After resume trouble shooting worksheet Job seekers will also find an exciting added value with this essential text With the purchase of this book they ll be able to receive a free resume consultation with one of Resume com s career consultants

Sales and Marketing Resumes for \$100,000 Careers Louise Kursmark,2000 You are an accomplished sales or marketing pro who has made a positive difference for your customers and your organization Your talents have been fundamental to the growth and success of your company But maybe you re anxious to test the waters for an advanced or more lucrative position **How to Survive and Maybe Even Love Health Professions School** Arlene M Muller,2011-09-15 The author s simple clear and direct approach goes beyond normal classroom skills It s your constant companion from your first day at school through graduation to your first job You ll find a wealth of ideas and tips to help you solve the real life issues you ll face as a student and a professional You ll even learn techniques and strategies for finding and landing that first job

Winning Resumes Matthew Greene,1994 You want the job but how do you get your resume to stand out from the hundreds of others employers usually get Writing the old type of basic resume just doesn t cut it anymore It s too vague too bland and too lackluster It won t sell you Written by a personal expert this remarkably effective guide shows you how to turn your resume into a mini sales presentation that grabs immediate attention because it offers your best selling points Whether you are a recent college grad or a midlife career changer you ll learn how to get a jump on other job applicants with this strategy packed book that is complete with sample resumes tips on format style and words phrases and sentences that sell There s so much you can copy or adapt **Accidental Encyclopedia** Andy Grogan,2015-01-24 An overview of web design and UX of the best web sites on the internet **Resume Handbook (3rd)** Arthur D. Rosenberg,David V. Hizer,1996 Now with more than 250 000 copies of previous editions sold this bestseller shows exactly how to write direct no

nonsense resumes that attract jobs This third edition presents sample resumes and letters that have been updated to reflect important changes in today s job market The Publishers Weekly ,1890 **Popular Mechanics** ,1991-08 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **101 Best Resumes: Endorsed by the Professional Association of Resume Writers** Jay A. Block,Michael Betrus,1997-03-22 Offers advice on how to create letters and resumes that get jobs

Adweek ,1998 Vols for 1981 include four special directory issues Mediaweek ,1996 *Q: How Do I Find the Right Job? A: Ask the Experts* David Bowman,Ronald Kweskin,1990-01-29 In this remarkably candid and conversational guide career specialist David Bowman asks the human resource executives of today s top Fortune 500 companies what it is that job candidates need to say and do at each stage of their job search in order to get the right job **Government Executive** ,1995 **Editor & Publisher** ,1990-07 Directory of interactive products and services included as section 2 of a regular issue annually 1995 Computerworld ,1994-11-21 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **CareerXroads** ,2002 **Engineering News-record** ,1972 **The Career Change Resume** Kim Isaacs,Karen Hofferber,2003 Written by the official resume advisers to Monster com this is the ultimate guide to creating life changing resumes The Career Change Resume helps aspiring career changers reinvent themselves by showing them how to transform their resumes The book includes step by step instructions demonstrating how to craft resumes that open doors to new careers more than 150 sample resumes and cover letters valuable innovative career change tools and strategies and solutions to common problems plaguing career changers

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Table of Contents Resume Template Usa On Sale

1. Understanding the eBook Resume Template Usa On Sale
 - The Rise of Digital Reading Resume Template Usa On Sale
 - Advantages of eBooks Over Traditional Books
2. Identifying Resume Template Usa On Sale
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Resume Template Usa On Sale
 - User-Friendly Interface
4. Exploring eBook Recommendations from Resume Template Usa On Sale
 - Personalized Recommendations
 - Resume Template Usa On Sale User Reviews and Ratings
 - Resume Template Usa On Sale and Bestseller Lists
5. Accessing Resume Template Usa On Sale Free and Paid eBooks
 - Resume Template Usa On Sale Public Domain eBooks
 - Resume Template Usa On Sale eBook Subscription Services
 - Resume Template Usa On Sale Budget-Friendly Options

6. Navigating Resume Template Usa On Sale eBook Formats
 - ePUB, PDF, MOBI, and More
 - Resume Template Usa On Sale Compatibility with Devices
 - Resume Template Usa On Sale Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Resume Template Usa On Sale
 - Highlighting and Note-Taking Resume Template Usa On Sale
 - Interactive Elements Resume Template Usa On Sale
8. Staying Engaged with Resume Template Usa On Sale
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Resume Template Usa On Sale
9. Balancing eBooks and Physical Books Resume Template Usa On Sale
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Resume Template Usa On Sale
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Resume Template Usa On Sale
 - Setting Reading Goals Resume Template Usa On Sale
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Resume Template Usa On Sale
 - Fact-Checking eBook Content of Resume Template Usa On Sale
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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