OLIVIA SMITH

CAE Engineer

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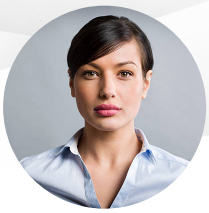

PROFESSIONAL SUMMARY

Driven CAE Engineer with 5 years of experience specializing in advanced simulations and structural analysis. Adept at optimizing product designs through innovative computational methods and cross-functional collaboration, resulting in enhanced performance. Committed to leveraging technical expertise to propel engineering projects forward and contribute to organizational success.

WORK EXPERIENCE

CAE Engineer

Jan / 2021-Ongoing

Quantum Solutions LLC

Phoenix, AZ

1. Developed comprehensive project plans and documentation to guide engineering teams through the simulation process.
2. Executed linear static, dynamic, impact, fatigue, and crash analyses to assess product durability and performance.
3. Utilized LS-DYNA software for structural crashworthiness simulations, evaluating vehicle performance under various impact scenarios.
4. Conducted stiffness evaluations for Body-in-White (BIW) and body closures to ensure structural integrity.
5. Facilitated cross-functional collaboration to gather input for developmental planning.
6. Created detailed Finite Element Analysis (FEA) models for various load cases, enhancing predictive capabilities.
7. Validated CAE predictions against physical test data to improve modeling accuracy and reliability.

CAE Engineer

Jan / 2020-Jan / 2021

Cactus Creek Solutions

Phoenix, AZ

1. Constructed FEA models to simulate supersonic wave propagation utilizing the Coupled Eulerian-Lagrangian method in Abaqus.
2. Performed optimization analyses for components such as belt clips and pump housings, improving design robustness.
3. Analyzed motion data under blast conditions using Origin and ProAnalyst to inform design adjustments.
4. Presented technical feedback during weekly meetings, leading to successful implementation of design modifications.
5. Conducted FEA analysis on steering systems using PTC Creo, assessing stress levels and fatigue life under various conditions.

EDUCATION

Master of Science in Mechanical Engineering

Jan / 2019-Jan / 2020

University of California

Denver, CO

Focused on computational mechanics and simulation techniques.

SKILLS

Data Analysis Software 8

Project Management 10

Finite Element Analysis 10

Computational Fluid Dynamics 7

ACHIEVEMENTS

- Increased simulation accuracy by 20% through enhanced modeling techniques.
- Led a project that reduced product development time by 15% using efficient simulation workflows.