
Professional Summary

Detail-oriented Simulation Engineer with 7+ years of experience specializing in deep tech simulations, computational modeling, and algorithm development to support advanced product design and innovation.

Skills

Computational Modeling

Simulation Software (e.g., MATLAB, ANSYS)

Algorithm Development

Data Analysis and Visualization

Problem-Solving and Critical Thinking

Technical Report Writing

Cross-Functional Team Collaboration

Deep Tech Product Development

Certifications

Education

BSc in Mechanical Engineering
University of Engineering and Technology
, 2014-06

Diploma in Computational Modeling and Simulation
City Technical College
, 2010-06

Work History

Innovative Deep Tech Labs

Senior Simulation Engineer | 2019-06 - Present

- Lead development and execution of high-fidelity simulations for deep tech product prototypes using advanced modeling software and algorithms.
- Collaborate with cross-functional teams of engineers and researchers to translate design requirements into simulation parameters and actionable insights.
- Develop custom simulation tools and scripts to automate complex analysis and improve accuracy of predictive models.
- Mentor junior simulation engineers on best practices in computational modeling and simulation techniques.

NextGen Simulation Solutions

Simulation Engineer | 2016-01 - 2019-05

- Conducted simulations and computational studies for electronics and mechanical deep tech systems to evaluate performance and reliability.
- Validated simulation models through experimental data and provided iterative feedback for product improvements.
- Prepared detailed technical reports and presented simulation results to stakeholders for decision-making purposes.
- Supported R&D teams in integrating simulation insights into design optimization and problem-solving workflows.

Languages