



MICHAEL ANDERSON

Senior CFD Engineer

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SUMMARY

Proficient Computational Fluid Dynamics Engineer with over a decade of extensive experience in advanced simulations and analyses within aerospace and automotive sectors. Demonstrated expertise in utilizing cutting-edge computational techniques to optimize fluid dynamics, leading to significant performance enhancements. Adept at collaborating with interdisciplinary teams to integrate CFD findings into design processes, ensuring adherence to stringent industry standards.

WORK EXPERIENCE

Senior CFD Engineer AeroDynamics Corp

Jan 2023 - Present

- Led CFD simulations for next-gen aircraft designs, improving aerodynamic efficiency by 15%.
- Utilized ANSYS Fluent and OpenFOAM for detailed flow analysis and optimization.
- Collaborated with structural engineers to integrate fluid dynamics findings into overall design.
- Conducted validation tests and presented findings to stakeholders, enhancing project transparency.
- Implemented advanced turbulence modeling techniques, reducing computational time by 20%.
- Mentored junior engineers in CFD methodologies and software usage.

CFD Analyst Velocity Engineering

Jan 2020 - Dec 2022

- Performed simulations to analyze airflow patterns in automotive designs, leading to improved fuel efficiency.
- Developed and validated computational models for heat transfer analysis in vehicle components.
- Utilized MATLAB for data analysis and post-processing of simulation results.
- Collaborated with product development teams to refine designs based on CFD insights.
- Presented technical reports to management, influencing strategic project decisions.
- Conducted workshops to enhance team knowledge on CFD principles and software tools.

EDUCATION

M.S. in Mechanical Engineering, Stanford University

Sep 2019 - Oct 2020

ADDITIONAL INFORMATION

- **Technical Skills:** CFD, ANSYS Fluent, OpenFOAM, Turbulence Modeling, MATLAB, Data Analysis
- **Awards/Activities:** Received the Innovation Award for outstanding contributions to aerodynamic optimization in 2019.
- **Awards/Activities:** Published research on advanced turbulence modeling techniques in a leading engineering journal.
- **Awards/Activities:** Successfully reduced simulation run times by 30% through process optimization initiatives.
- **Languages:** English, Spanish, French