Michael Chen

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Objective

Aerospace Engineering student eager to apply CFD and MATLAB skills as an Aerodynamics Intern at TUM, contributing to compressor design and performance analysis.

Education

B.S. in Aerospace Engineering Expected May 2026
University of Aerotown, Aerotown, ST
GPA: 3.9/4.0 | Relevant Coursework: Aerodynamics, Fluid Mechanics, CFD

Skills

- Technical: MATLAB, ANSYS Fluent, SolidWorks, Python
- Analytical: Computational Fluid Dynamics, Data Visualization
- Soft Skills: Problem-Solving, Team Collaboration, Technical Writing

Experience

Research Assistant University of Aerotown Jan 2024 – Present

- Performed CFD simulations to analyze airflow over airfoils, improving lift by 8%.
- Developed MATLAB scripts for data processing and visualization.
- Collaborated with a team to validate experimental results against simulations.

Intern AeroTech Inc. Summer 2023

- Assisted in wind tunnel testing and data collection for wing designs.
- Created 3D models using SolidWorks for aerodynamic components.

Projects

Airfoil Optimization Project Fall 2023

- Used ANSYS Fluent to optimize airfoil shapes, reducing drag by 10%.
- Presented findings at the National Aerospace Conference.