

Israk Rifat

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Objective

Highly motivated Aeronautics student with a strong foundation in aerodynamics, aircraft structures, and propulsion systems. Eager to leverage technical skills in CAD design and flight simulation to contribute to innovative aerospace projects.

Education

| Course / Degree | School / University | Grade / Score | Year |
|-------------------------------------|--|---------------|------|
| Aeronautical engineering | Nanjing university of aeronautics and astronautics | 3.20 | 2027 |
| Secondary school certificate | Milestone school | 5.00 | 2020 |
| Higher secondary school certificate | Milestone college | 5.00 | 2022 |

Skills

- 1.Sales 2.Team building 3.Problem Solving 4.Decision making Technical: Aerodynamics, Flight Mechanics, Aircraft Maintenance, Propulsion Systems. • Software: SolidWorks/CATIA (CAD), MATLAB, ANSYS (CFD), MS Office. • Soft Skills: Analytical Thinking, Team Collaboration, Technical Writing.

Projects

- **Design**

Design and Simulation of a Fixed-Wing UAV

- Designed a CAD model of a high-endurance Fixed-Wing UAV using SolidWorks.
- Performed Computational Fluid Dynamics (CFD) analysis to optimize lift-to-drag ratios.
- Simulated flight stability and performance parameters using MATLAB/Simulink.

Analysis of Gas Turbine Engine Performance

- Conducted a theoretical study on the thermal efficiency of a Turbojet engine cycle.
- Calculated thrust, fuel consumption, and pressure ratios across various altitudes.
- Analyzed material properties required for high-temperature turbine blades to improve engine life.

Design of a Small-Scale UAV

- Developed a 3D model of a fixed-wing UAV using SolidWorks.
- Analyzed lift and drag coefficients to optimize flight efficiency.
- Study of Jet Engine Thermal Cycles
- Calculated efficiency and thrust parameters for a Turbojet engine model.

Reference

- **xiao ling zhang - "Yiwu Ailu"**
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