Resume – Chen Zhaolin

Professional Title

Associate Professor, School of Aeronautics and Astronautics, Nanjing University of Aeronautics and Astronautics (NUAA).

Research Areas

• Aerodynamics and aircraft design
• Mars rotorcraft and extreme-environment rotor systems
• Low Reynolds number flow mechanisms
• eVTOL aircraft propulsion technologies
• Rotor aerodynamic-structural integrated design

Education

University of Sheffield, United Kingdom
• Doctor of Engineering (Aircraft Design), 2009–2014
• Master of Science in Aerospace Engineering, 2005–2009

Campbell College
• High School Education (Mathematics, Physics, Chemistry, Economics), 2003–2005

Professional Experience

• Associate Professor, NUAA (2018–Present)
Conducting interdisciplinary research in aerodynamics and aircraft design, with emphasis on Mars rotorcraft and electric aircraft propulsion systems.

• Postdoctoral Researcher, University of Sheffield (2014–2015)
Led a racing car aerodynamic shape optimization project.

• Engineer, DencoHappel Flakt Group (2015–2018)
Developed propeller design, manufacturing, and testing systems and conducted wind tunnel experiments.

Teaching Achievements

• Outstanding teaching evaluations (2021–2024)
• Special Prize, Jiangsu Higher Education International Student Teaching Observation Competition (2024)
• Advocate of project-based learning and research-integrated teaching approaches

Research Highlights

• Conducted research on low-pressure, low-density aerodynamics for Mars rotorcraft.
• Investigated laminar separation bubbles and transonic flow interactions.
• Developed unsteady rotor aerodynamic models and validated them experimentally.
• Focused on future aerospace technologies and intelligent exploration systems.

Social Contributions

• Delivered science outreach lectures in secondary schools.
• Mentored students in innovation competitions and international programs.
• Guided students in conference participation and interdisciplinary activities.