

Yiwei Wang

wangyiwei2025@outlook.com | +86 19883037271

EDUCATION

09/2020 – 07/2025 **The University of Nottingham, Ningbo China**
Bachelor of Engineering in Aerospace Engineering
Expected Grade 75, First Class Honors degree

CORE MODULES AERO 2005 Control of Aerospace Systems (87); AERO 1000 Aerospace Design and Materials (75); AERO 2003 Dynamics and Flight Mechanics (70), etc.

RESEARCH EXPERIENCE

- 06/2024–08/2024** **Faculty of Science and Engineering, UNNC, China**
Prototype Development of a 3 Degree-of-Freedom Parallel Research Assistant to Dr Donglei Sun
- Responsible for building a model of a 3-degree-of-freedom parallel actuator based on existing research, especially from the book *Robot Modelling and Control*
 - Designed the trajectory of the actuator by drawing on knowledge of statistics and dynamics, gaining knowledge about robot modelling and control
 - Applied theoretical knowledge in control of aerospace systems, and dynamics and flight mechanics to solve a practical problem
- 06/2023 – 08/2023** **Faculty of Science and Engineering, UNNC, China**
Multidisciplinary Design Optimization of Propeller Performance and Noise Project Research Assistant to Dr Richard Amankwa Adjei
- Modelled the propeller design using SolidWorks
 - Carried out CFD analysis using Ansys, specifically CFX and CFD (Fluent) to simulate the different blade performances of the vehicle
 - Gained knowledge of control principles
- 01/2023 – 05/2023** **The Control Lab, UNNC, China**
Tail-Sitter Vertical Take-Off and Landing (VTOL) Drone Project Research Assistant to Dr Salman Ijaz
- Applied control theory to enable the drone to operate successfully in the main phases of flight (take off, landing and cruise)
 - Used principles of UAV electronic control system and Simulink software to stabilize the flight of the drone
- 09/2022 – 12/2022** **Advanced Manufacturing Centre, UNNC, China**
Design of 5 Axis Industrial Cutting Machine Project Research Assistant to Prof Haonan Li
- Liaised with company to determine project requirements
 - Gained knowledge of integrated circuits while working on the project
 - Integrated C programme for automating the probes object detection and tilt angle
 - Demonstrated excellent communication skills when speaking to various teams within the company

EXTRACURRICULAR EXPERIENCE

- 12/2024–05/2024** **ASME K-16/IEEE EPS 2024 Design Competition, United States**
Team Member, directed by Dr Yi Nie and Dr Shanshan Long
- Led my team to design an efficient heat sink, achieving a runner-up award
 - Carried out CFD analysis to optimise the design and incorporated design features to allow the component to be 3D printable

ADDITIONAL INFORMATION

- AWARDS** - Runner Up: ASME K-16/IEEE EPS Heat Sink Design Competition held in the US
- PUBLICATIONS** - 'Surrogate-based multifidelity: Robust optimization for ducted fan blade aerodynamic design', published at a MEAE IEEE conference, 2024
- LANGUAGES** - English (fluent), Chinese (native)
- IT SKILLS** - MATLAB, Ansys, C, C#, SolidWorks, 3DExperience, Python, Visio, Adobe, Gasturb, Mission Planner,
- INTERESTS** - Gambit
- GO, Robotics, Basketball
- SCHOLARSHIP** -2022-2023 Dream Scholarship for UNNC Chess Club of the University of Nottingham, Ningbo China