

# Lingfeng HUANG

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## Education

**University of Southampton**

**09/2022 - 07/2023**

**MSc in Propulsion and Engine Systems Engineering (Advanced Mechanical Engineering Science)**

**Core Modules:** Aircraft Propulsion, Advanced Electrical Systems, Engineering Design with Management, Automotive Propulsion.

**Expected Grade:** Upper Second Class

**Nanchang Hangkong University (NCHU)**

**09/2018 - 07/2022**

**Bachelor's Degree in Aircraft Manufacturing**

**Core Modules:** Advanced mathematics (85), Theoretical Mechanics (91), Material Mechanics (90), Engineering Materials and Heating Treatment (85), Mechanical Design (84).

**Grade:** 81.294/100

## Academic Thesis

**Design of the Wings of Aircraft Assembly Jigs of An Experimental Teaching Aircraft**

**06/2022**

- **Description:** Assembly fixture is large-scale tooling for orientation and clamping in aircraft's assembly, and directly affects the period and quality of aircraft production. It could not only ensure that all parts produced using the fixture maintain conformity and interchangeability, but also improve the work productivity of aircraft assemblers, and reduce costs.
- Taking the experiment of the aircraft airfoil assembly design of the teaching department as an example, the paper accurately and thoroughly introduces the design requirements, methods and as well as problems which should be noted in the progress of practice and design of the wing assembly jig, including measurement of model parameters, design of scaling ratio, selection of the type and material of the mould frame and final strength check.
- The author thinks that the design of locating parts and clamping parts is particularly important. In the process of designing the assembly fixture boards, uses the 3D model projection function to draw the shape which fits better to the wings, and then uses the Catia to draw it into a solid modelling.
- The author also takes the influence of ground and temperature on the formwork into consideration in the design of the formwork and calculates the data. It is necessary to ensure that the machine assembly parts have strict requirements on positioning dimension accuracy and parts interchangeability. The author also pays attention to ensuring the convenience of production workers in aircraft assembly production.

## Patent

- Modified Desk and Cabinet (Utility Model Patent)

## Practice Experience

**Cryogenic Lab Practice**

**02/2023 - Present**

- Tested composite materials permeability and physical characteristics in room temperature and cryogenic condition, researched methods about cryogenic sealing and thermal cycling.

**Graduation Practice**

**05/2022**

- Understood the history, importance to our country, and current status of aviation enterprises, and learned its technologies and assignments in Engineering Training Centre.

**Training of Electrical Engineering and Electronics**

**10/2020**

- Provided the complete circuit connections, and completed the design, simulation, layout and verification of the circuit.

**Metalworking Practice**

**08/2019 - 09/2019**

- Conducted metalworking practice, and familiarised myself with over 20 types of work in production, including lathe work, bench workers, CNC milling and 3D printing.

## Extra-Curricular Activities

### Founder | Online Game Studio

06/2022 - 09/2022

- Established an independent game studio and took responsibility for the operation and management of the studio.

### Leader & Organiser & Coach | Bodybuilding & Fitness Association

09/2018 - 09/2020

- Taught fitness knowledge to other members and guided them to the key point of movements. Organised various activities and competitions, including Bench Press Competition.

### Student | University of Nottingham Summer School

08/2019 - 09/2019

- Attended the language courses, experienced the relaxing learning environment, and visited the famous universities, museums and attractions in the UK.

### Member | Reception Team of School of Aeronautical Manufacturing Engineering

09/2018 - 09/2019

- Became familiarised with the process and requirements of the reception, made adequate preparations, and conducted rehearsals with other members to finish every task, including New Star Show and Variety Competition. Participated in the variety show as a participant.

### Member | Science and Technology Innovation Centre of Student Union

09/2018 - 09/2019

- In charge of organising science and technology competitions and activities like the Water Rocket Contest. Responsible for writing the planning plan and publicising the small invention activities.

## Honours & Certificates

- Merit Student in 2022, 2021, and 2019
- Third-Class Scholarship of NCHU in 2021
- Third-Class Prize of the Feiying Cup Aircraft Model Competition of NCHU in 2021
- Second-Class Prize of the Aeroengine Design Competition in 2021
- Second-Class Prize of the Angel Wings Badminton Recycling Activity in 2020
- Third-Class Prize of the Qihang Cup Electric Paper Aircraft Competition of NCHU in 2020
- Second-Class Prize of the Collegiate Innovation Competition of Creative Ideas of NCHU in 2020
- Second Place in the Jiangxi Kaifute Cup Bodybuilding & Fitness Competition (80kg College Group) in 2020
- Second-Class Scholarship of NCHU in 2020
- Fifth Place in the Bench Press Competition in 2019
- Third-Class Prize of the Water Rocket Championship Contest (Funny Competition) of NCHU in 2019
- Self-invented Product: Portable and Moistureproof Umbrella in 2019
- CBBA Professional Fineness Coach Certificate in 2018
- The Certification of Sports Nutritionist in 2018
- Training and Certification of Sports Nutrition Skills in 2018
- The Certification of Physical Fitness Training in 2018
- Certificate for Red Cross First Aider in 2018
- Third Place in the Class Flag and Class Badge Design Competition in 2018
- Third Place in the Xinsheng Cup Basketball Match of the School of Aeronautical Manufacturing Engineering in 2018
- Third-Class Prize of the Water Rocket Championship Contest of the School of Aeronautical Manufacturing Engineering in 2018
- Third Place in the Debate Competition in the School of Aeronautical Manufacturing Engineering in 2018
- Excellent Student in Military Training in 2018
- Fourth Place of 50m Freestyle Swimming of Sports Meeting in 2017

## Skills & Hobbies

**Language Skills:** Chinese (native) & English (fluent)

**Computing Skills:** Ansys, Catia, Solidworks, Abaqus, CAD, programming language (C, Visual basic), Microsoft Office (PowerPoint, Word, Excel)

**Hobbies:** Bodybuilding, swimming, playing basketball and reading comic books