

Jialong NING

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EDUCATIONAL BACKGROUND

Columbia University in the City of New York 09/2018-06/2022

- Advanced Master of Science in Mechanical Engineering- Robotics and Control concentration
- Overall GPA: 3.875/4.0

Wuhan University of Technology (WUT) 09/2018-06/2022

- Bachelor of Engineering in Energy and Power Engineering
- Overall GPA: 3.661/5.0 (Ranking:15/134)

RESEARCH EXPERIENCES & COURSE PROJECTS

Project: Ornithopter 12/2023-04/2024

Supervisor: Hod Lipson Columbia University in the City of New York

- Responsible for the design of connecting rod set and completed the writing of the specification
- Determined the design process, planned the design plan, then calculated the required parameters for the engine to reach the required power, and performed parameter checks to see if the designed connecting rod parameters met the strength and stiffness checks
- Completed the design of the parts
- Used AutoCAD to draw out the parts, and then drew the assembly and parts drawings on the drawings

Project: Robot Fish 04/2024-06/2024

Supervisor: Helin XIAO (Associate Professor), WUT

- Responsible for the design of connecting rod set and completed the writing of the specification
- Determined the design process, planned the design plan, then calculated the required parameters for the engine to reach the required power, and performed parameter checks to see if the designed connecting rod parameters met the strength and stiffness checks
- Completed the design of the parts
- Used AutoCAD to draw out the parts, and then drew the assembly and parts drawings on the drawings

Project: Course Design of Mechanical Design B 12/2020

Supervisor: Hui SHI (Lecturer), WUT

- Designed a two-stage decelerator to meet the technical requirements and durable years
- Presented the draft drawing on AutoCAD, and ended up hand-painting it on the design drawings

INTERNSHIP EXPERIENCES

Sichuan Energy Internet Research Institute Tsinghua University, Chengdu, Sichuan, China

Electrochemical Energy Materials and Devices Research Center 07/2021-09/2021 & 01/2021-02/2021

Laboratory Technician

- Studied the preparation process of PEMFC catalytic layer ink
- Explored the stability of catalytic layer ink, mainly in the direction of the effect of different carbon-loaded platinum on the stability of ink
- Assisted in the daily research work in the laboratory

Automotive Experiment Center, WUT 09/2020-12/2020

Laboratory Technician

- Responsible for the disassembly and assembly of automobile engine and reducer

EXTRACURRICULAR ACTIVITIES

Keynote Speaker for Eco Enzyme Promotion 05/2019

Volunteer of Dongfeng Renault Wuhan Marathon 04/2019

Organization and Management of the "Safe Campus and Happy Community" Cultural Show 12/2018-01/2019

HONORS

Outstanding Undergraduate Graduates 06/2022

The 3rd Scholarship for Excellent Student Twice, WUT 11/2019 & 11/2021

Merit Student Twice, WUT 11/2019 & 11/2020

The 2nd Scholarship for Excellent Student, WUT 11/2020

The First Prize of CAD Drawing Competition, Donglizhiyuan-Science and Technology Culture Festival 12/2018

Outstanding Individual of Student Union in November for 2018-2019 Academic Year 12/2018

COMPUTER & MATHEMATICAL SKILLS

Proficient in C Language, Java, AutoCAD, SolidWorks, Comsol, MATLAB, Multisim