

# Jiadong Hou

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## EDUCATIONAL BACKGROUND

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**Nanjing Tech University** *Nanjing, China*  
**Degree:** Bachelor of Engineering in Mechanical Engineering *09/2020-06/2024*  
**Average Score:** 85%

### Scholarships:

- Third-class Scholarship of Nanjing Tech University for AY 2020-2021 Term 2, AY 2021-2022 Term 1, AY 2021-2022 Term 2, AY2022-2023 Term 1, and AY 2022-2023 Term 2

**University of Manchester** *Manchester, UK*  
**Degree:** Master of Science in Robotics *09/2024-09/2025*

## PROJECT AND RESEARCH EXPERIENCE

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**Design of Two-grade Straight Column Gear Reducer** *Nanjing, China*  
*Team Leader* *02/2023-05/2023*

- Organized the team to complete the course design, allocated tasks and presented the project reports and slides to teachers
- Devised the gear plan to select the electromotor and determine the transmission ratio
- Made corresponding analysis and computations, such as gear, bearing and structural support design
- Built models to conduct simulation analysis to optimize the reducer's performance

**Design of Singer-cylinder Four-stroke Internal Combustion Engine** *Nanjing, China*  
*Core Member* *09/2022-05/2023*

- Developed the project plan outlining timelines for research and mastered the working principles
- Calculated diversified parameters like acceleration, turning velocity, fictitious force and force of moment
- Conducted simulations and modelling to assess the performance and efficiency of the design

## INTERNSHIP EXPERIENCE

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**Weichai Power Co., Ltd.**  
*Intern at Engine Research Institute* *Weifang, China* *07/2022-08/2022*

- Participated in various mechanical design-related assignments and gained insights into industrial design processes like conceptual design, manufacturing, and testing
- Got involved in the design of engine frame support rods, including creating drawings and models, conducting strength and durability analysis

## SKILLS

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- **Language:** Mandarin (native), English (fluent)
- **Computer Software:** CAD, eDrawings, RobotStudio, SOLIDWORK, TIA Administrator
- **Computer Language:** C, Python