

# Yang Cai

Ningbo, China

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## Education

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- **Northwestern Polytechnical University, Xi'an, China** *Sept. 2022 – Present*  
*Bachelor, Information Engineering*  
GPA: 3.65/4.1, 88.72/100  
Relevant Courses: Calculus H, Course 2, Course 3, Course 4

## Research Experience

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- **Co-Principal Investigator, National-Level College Student Innovation and Entrepreneurship Project on Hybrid Engine Design**  
*Northwestern Polytechnical University, Xi'an, China* *April 2024 – Present*
  - Supervised by Professor Yongqiang Shi.
  - Co-led the design and implementation of an algorithm based on automatic control principles and machine learning, enabling the engine to autonomously adjust its speed.
  - Oversaw the deployment of the algorithm onto hardware, facilitating long-distance travel by leveraging hybrid power from both fuel and electricity.

## Internship Experience

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- **Position, Company/Institution Name, Location** *Month Year – Month Year*
  - Brief description of your responsibilities and achievements.
  - Another significant achievement or task.
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## Competition Experience

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- **Mathematical Contest in Modeling (MCM)** *January 2024*  
*Honorable Mention*  
Participated in the Mathematical Contest in Modeling (MCM), a prestigious international competition that challenges students to solve real-world problems using mathematical modeling. My team worked on a problem related to the control of water flow in the Great Lakes, developed a robust model, and provided innovative solutions, leading to the achievement of the Honorable Mention.

## Honors & Awards

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- **Second-Class Scholarship, Northwestern Polytechnical University** *December 2023*  
Awarded for outstanding academic performance in the academic year 2022-2023, recognizing consistent excellence in coursework and overall academic achievements.
- **Diligent Study Model, Northwestern Polytechnical University** *December 2023*  
Recognized as an exemplary individual for dedication and perseverance in studies, awarded to students who demonstrate exceptional commitment to academic growth.

## Skills

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- **Programming Languages:** C (Proficient), Python (Proficient)
- **Tools & Technologies:** MATLAB, LaTeX (Proficient)

## Languages

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- **Chinese:** Native
- **English:** Proficient

## Extracurricular Achievements

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- **Yan Yiti Cup, Northwestern Polytechnical University** *November 2023*
  - 4th Place in Men's 50m Freestyle
  - 1st Place in Men's 50m Backstroke
  - 1st Place in Men's 4x50m Relay
  - 1st Place in Mixed 4x50m Relay