

# ER TAR YONG, Mechanical Engineer

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*Motivated Mechanical Engineering undergraduate student at Zhejiang University with a solid foundation in analytical thinking and problem-solving. Demonstrated curiosity and a strong desire for continuous learning and skill acquisition. Seeking opportunities to apply and further develop my abilities in mechanical engineering.*

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## WORKING EXPERIENCE

**Mindox Techno, Singapore**

**Mechanical Engineer**

**Sembawang, Singapore**

2023 NOV - PRESENT

- Coordinated project manufacturing activities with local and Malaysian manufacturers, ensuring compliance with specifications and timelines.
- Provided clear installation instructions for the production department.
- Reviewed and validated technical drawings before fabrication, ensuring compliance with specifications and reducing rework.
- Enhanced documentation efficiency by implementing Excel tools, significantly improving file organization and project management.
- Successfully implemented Excel solution to display duplicate components across multiple projects and ensure synchronized updates.
- Managed critical engineering documents, including Bills of Materials (BOM), Non-Conformance Reports (NCR), and Engineering Change Orders (ECO).

**Vitrox Corporation Berhad**

**Internship**

**Penang, Malaysia**

2022 JUL - 2023 JAN

- Conducted experiments to address a cosmetic issue by testing the impact of different materials (Alu 7075 and Alu 6061) on top plates, measuring their bending degree. Integrated results from SolidWorks Finite Element Analysis (FEA) confirmed the practicality of material change, resulting in a \$5 cost saving for the project.
  - Utilized the concept of modularity in project design to propose a prototype that standardized several commonly used products. This innovation enabled vendors to mass-produce standardized components, leading to significant cost savings.
  - Verified technical drawings with expert precision to ensure accuracy and compliance with specifications.
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## EDUCATION

**Zhejiang University**

**Hangzhou, China**

**Bachelor of Engineering in Mechanical Engineering**

*2018 SEP - 2023 JUL*

- With a GPA of 76.55/100, possessing specialized engineering knowledge, and having published a paper titled "Structure design and dilation performance analysis of polymer self-expanding vascular stent" during the final year project, a subsequent patent was obtained in this field.
  - Obtained patent number 2023109491597 for the innovative vascular stent design.
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## SKILLS

- SolidWorks: Proficient in 3D modeling and drawing annotation in SolidWorks. Conducted research on SolidWorks shortcuts, including exporting Excel tables and utilizing shortcuts for efficient operation.
  - AutoCAD: Experienced in mechanical drafting using AutoCAD software.
  - Microsoft Office: Skilled in utilizing Excel for data analysis and organization, including VLOOKUP function.
  - Ansys: Utilized Ansys for both static and dynamic analysis.
  - C Language: Proficient in basic programming with C language.
  - Matlab: Experienced in data analysis and optimization using Matlab software.
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## LANGUAGE

- Chinese: Native proficiency.
  - English: Intermediate proficiency.
  - Malay: Intermediate proficiency.
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## OTHER

- 2019: Volunteered for MSAZU Freshman Reception at Zhejiang University.
- 2019: Served as a Referee for the International Badminton Tournament at Zhejiang University.
- 2016: Held the position of Chairman for the String Orchestra during Chung Hwa High School.