Yuan Yao

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EDUCATION

•Jilin University 2021.9-now

School of mechanical and aerospace engineering GPA and Percentage: 3.76/4, rank within top 5%

•Tohoku University 2023.10-2024.8

Exchange student, Robotics division

Junior Year Program in English (JYPE program)

RESEARCH EXPERIENCES

•Micro Electro Mechanical Systems Lab; Tanaka Shuji Laboratory

2023.10-2024.8

Exchange student advised by Prof. Shuji Tanaka and Assistant Prof. Andrea Vergara

Tohoku University

- Oral presentation on the 37th International Microprocesses and Nanotechnology Conference (MNC 2024) [Slides] [Abstract]
- A paper under review for the conference extended special issue: Yuan, Y.; Vergara, A.; Tanaka, S.
 Feasibility study of layer separation using 2D patterned internal laser damage in silicon. Japanese Journal of Applied Physics [Paper manuscript]
- Experienced in clean room workflows and equipment operation:

Mask design	Mask Fabrication	Photolithography	Deep silicon etching (DRIE)
Sputtering	Ion beam milling	PVD/CVD	Optical/SEM/Infrared microscopy

•Key Laboratory of CNC Equipment Reliability, Ministry of Education

2022.9-now

Undergraduate research program advised by Prof. Hu Huang

Jilin University

- National Undergraduate Training Program for Innovation and Entrepreneurship(NCSIETP), National Excellent Conclusion, securing research funding of 10,000CNY
- Publish an Utility Model Patent: H. Huang, Y. Yao, Y. Huang, and H. Wu, "An ultrasonic vibration device for vibration-assisted scratch testing," Chinese Patent CN 220649966U, Mar. 22, 2024. [Patent content]
- Published a paper: Huang, Y.; Wu, H.; Yao, Y.; Zhao, H.; Huang, H. An Ultrasonic Vibration Scratch Tester for Studying the Scratch Characteristics of Materials under Ultrasonic Vibration Contact Status. *Actuators* 2024, 13, 262. https://doi.org/10.3390/act13070262

SKILLS

- •Languages: Native Mandarin; Fluent English including IELTs: 7.0 (6.5), CET4: 622, CET6: 559, GRE: 320; Basic Japanese
- •Professional Software: <u>Proficient</u>:Solidworks, Autocad; <u>Intermediate</u>: Catia; Ansys, Abaqus, Recurdyn; Matlab Simulink, Origin
- •Basic Programming Skills: Python, Matlab, C#, LATEX

HONORS AND ACHIEVEMENTS

National second prize-National University Students' Advanced Drawing Technology and Product

• Information Modeling Innovation Competition

Content: Advanced Engineering drawing and proficient in CAD software *Blog link*: [EN] [CH] 2022.8

Provincial first prize -China College Students Engineering Practice and Innovation Competition

Content: Designed and fabricated an auto-turning mini-car prototype *Blog link*: [EN] [CH] 2023.11

• Scholarship for Study in Japan under Agreement-Japan Student Services Organization 2023. 10-2024.8

• First-class scholarship -Jilin University

2023.11/2022.11

• Excellent student -Jilin University

2023.11/2022.11

• Excellent student leader -School of Mechanical and Aerospace Engineering, Jilin University 2022.11