Chuanyu Li

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EDUCATION

- **Sichuan University** — Chengdu, China
  Bachelor of Engineering - Mechanical Engineering; GPA: 3.21 — *Sep. 2021 - Jun. 2025*
  Courses: *Calculus , Linear Algebra , Probability Statistics , Material Mechanics , Theoretical Mechanics , Mechanical Principle , Mechanical Design , University Physics*

PROJECTS

- **ManiSkill-Vitac Challenge 2024** — Oct.2023 - Feb.2024
  ICRA 2024 workshop
  Supervisor   Tsinghua University   Prof. Rui Chen
  Co-Supervisor   UCSD   Prof. Hao Su   KCL   Prof. Shan Luo

  - Designed a handheld gripper equipped with tactile and visual information sensors.
  - Developed code for data collection on a Raspberry Pi, completed stereo camera calibration, and utilized `ORB_SLAM3` for position tracking.
  - Deployed the robot and soldered the circuit boards.

- **Designed an AllTact Fin Ray** — Nov.2023 - Apr.2024
  Tsinghua University   Prof. Rui Chen

  - Proposed a model to determine the optimal parameter combination for fin-ray under various working conditions.
  - Employed Latin hypercube sampling to combine the parameters.
  - Achieved the optimal fin-ray model by comparing simulation results with real-world tests.
  - Utilized VBA in SolidWorks for parametric modeling of the fin-ray, encompassing a total of 10 parameters, and directly generated STL models.

INTERNSHIP

- **Dongfeng Automobile Co., Ltd.** — Hubei, China
  Visit the entire car production line and provide recommendations for optimizing the production line. — *Jun 2024 - Jul 2024*

SKILLS SUMMARY

- **Languages**   Python, C++, VBA, Bash
- **Frameworks**   PyTorch, Stable-Baselines3, Gym
- **Tools**   Docker, git, ROS1/2
- **Platforms**   Linux(Ubuntu, Debian), Windows
- **Software**   Solidworks, AutoCAD, Ansys