Miao Yuchi

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Education

Northwestern Polytechnical University   2021/09 - 2022/07
Institute of Precision Guidance and Control, School of Aerospace   Xi'an, Shaanxi, China
- Master of Control Engineering

Northwestern Polytechnical University   2020/08 - 2021/07
Ningbo Research Institute, NWPU   Ningbo, Zhejiang, China
- Master of Control Engineering(Graduation practice)

Northwestern Polytechnical University   2013/09 - 2018/06
B. Eng in Detection, Guidance and Control Technology, School of Aerospace   Xi'an, Shaanxi, China

Work Experience

Pengcheng National Laboratory   2021/08 - Now
open-source EDA software engineer   Shenzhen, China

Open-Source Contributions

TreeCore ⓞ   2020/12 - Now
- TreeCore contains a bundle of tools which aims to improve development experience of processor design. Now it mainly focus on processor frontend and system software field. We hope it can integrate multiple components to build a common workflow for agile hardware development from frontend to backend one day.

Personal Projects   54 followers ⓞ maksyuki
- ⓞ **TaichiGAME** (★43) GPU Accelerated Motion Engine based on Taichi Lang
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Professional Skills   2019 - Now
- Proficient in C/C++, JavaScript, Python, Rust, Verilog, Familiar with ES6, WASM
- Proficient in Algorithms and Data Structures, Computer Architecture,
- Proficient in FPGA development
- Proficient in Linux OS, Shell and Make tools.
- Proficient in Git and collaborative development process, Experience in maintaining open source code
- test

Research   2019 - Now
- Research on Hopping Trajectory Planning for Asteroid Surface Exploration with Micro Irregular Gravity Fields(National Natural Science Foundation of China)
- Analysis of Key Technology in Asteroid Rover GNC System with Micro Irregular Gravity Fields(Conference paper)
- Swarm and Collaborative Cubesat Rovers to Explore Lunar Lava Tubes(Preprint)

Honors & Rewards   2015 - Now
- Winning Prize, RISC-V Ecological Innovation and Entrepreneurship Competition Final Roadshow(2022)
- Second Prize, the Taichi Graphics course(2022)
- First place, the Nuclei RISC-V embedded development course(2021)
- First class graduate scholarship(2019)
- Bronze, the 2016 Asia EC-Final of International Collegiate Programming Contest(ACM-ICPC)
- Bronze, the 2015 China Collegiate Programming Contest(CCPC)