

Shengran (Kevin) Jin

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EDUCATION

- **University of Michigan, Ann Arbor** Ann Arbor, Michigan
Bachelor of Science in Computer Engineering and Data Science; GPA: 3.92 *Sept. 2024 – May. 2028(Expected)*
- **Georgetown Preparatory School** North Bethesda, Maryland
High School; GPA: 96/100 (Unweighted) *Sept. 2020 – May. 2024*

SKILLS

- **Programming Languages:** Python, Java, C++, Javascript, HTML, CSS, LUA
- **Frameworks and Libraries:** Vue.js, React.js, Bootstrap, TailwindCSS, Django, MySQL, InnoDB, ROS2
- **Tools and Platforms:** Excel, Git, Linux, Shell, L^AT_EX, VSCode, PyCharm, EclipseIDE, Postman, SolidWorks, Fusion360

EXPERIENCE

- **Michigan Mars Rover Team** University of Michigan, Ann Arbor
Teleoperations Member *September, 2024 - Present*
 - **Frontend Developer:** Developed frontend interface using Vue.js, Bootstrap, and Python along with the Michigan Mars Rover team, aiming to improve operator experience and reliability during competition environments.
- **TJU Key Laboratory on Optoelectronic Information Technology** Tianjin, China
Laboratory Assistant *August, 2023*
 - **Laser Cavities:** Studied the construction of linear and folded laser cavities and assisted in data collection from experimental procedures concerning laser efficiency and penetrative capability.
 - **OriginLab and Excel:** Utilized OriginLab and Excel to collect and compute power data from laser experiments to form graphs and statistical reports.

RESEARCH

- **Operating Speed of FDM 3D printers:** Research paper written for High School senior project on the impact of various variables such as power delivery, processing capability, cooling capability to the smooth and swift operation of various constructions of Fused-Deposition Modeling 3D Printers.
- **SolidWorks SimulationXpress:** Utilized SolidWorks and Fusion360 to construct high-flow hotend for a custom VORON 0.2 3D printer, used SolidWorks SimulationXpress to simulate external forces and optimize construction.

PROJECTS

- **Personal Website (<https://kevinjin420.github.io/>):** Build personal website using React.js, TailwindCSS, and Bootstrap to better display personal and contact information.
- **Image Resizer:** Created a seam-carving algorithm to reduce PPM image size using C++, and developed extensive test-cases to ensure functionality. Utilized Version Control and implemented Documentation with Git.
- **VORON 0.2 3D Printer (Github Repo):** Modified 3D printer based on open source VORON 0.2 design, including fully redesigned power delivery, mainboard wiring, auxiliary cooling, ultra high-flow hotend, hotend duct cooling system, re-tuned firmware and power-delivery parameters using Python and SPI interface.
- **FPV Drone:** Constructed an FPV drone using purchased hardware, custom 3D-designed parts, and soldering. Drone capable of agile maneuvers and top speeds of 106mph. Used for high school cinema shoot and personal recreation and video production. Configured video and radio signal transmission using LUA.
- **Student Grade Management system:** Built student grade management system to more efficiently keep track of student grades and academic performance. Implemented using Vue.js, MySQL, and InnoDB. Developed and tested APIs using Postman.