

YUXIN HU

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EDUCATION

University of California, Berkeley <i>Master of Engineering</i> Expected Graduation: May 2023	<i>Berkeley, CA, US</i>	<i>Aug 2022 - Present</i> Major: Mechanical Engineering Concentration: Product Design
Rensselaer Polytechnic Institute <i>Bachelor of Science</i> Cumulative GPA: <u>3.78 / 4.00</u> <ul style="list-style-type: none">Took 7 extra courses in Computer Science	<i>Troy, NY, US</i>	<i>Aug 2018 - May 2022</i> Major: Mechanical Engineering
Nanzan University <i>Exchange Language Program (Online), Center of Japanese Studies</i>	<i>Nagoya, JP</i>	<i>Jan 2021 - May 2021</i>

SKILLS

Programming:	R, C++, C#, C, Matlab, Python, Arduino, OpenCV2 (Computer Vision), PyTorch(Machine Learning), Control System, Robotics, \LaTeX
Software & Tools:	Mathematical Modeling, Prototype Machining, 3D Printing (SLA/FDM/SLS), AutoCAD / SolidWorks / Siemens NX, Finite Element Analysis

LAB & INDUSTRY EXPERIENCES

Mechanical Engineering Department at RPI <i>Undergrad Research Assistant, Innovation in Selective Laser Sintering Method for Bismuth Telluride</i> <ul style="list-style-type: none">Examined and analyzed laser-sintering-prepared Bi_2Te_3 samples' mechanical and electrical propertiesEngineered a new device layout that could significantly optimize the printing quality and enhance the electrical propertiesConceptualized the future potential in 3D printing semi-conductor devices	<i>Troy, NY</i>	<i>Jan 2022 - May 2022</i>
General Electric (GE) Healthcare Shanghai Co., Ltd. <i>Intern, Division of Manufacturing</i> <ul style="list-style-type: none">Quantified the efficiency of production lines, and implemented improvement plans that greatly promoted efficacy by 2 times.Programmed a new module that acts as a bridge between multiple information systems, saving 3 hours of labor per dayParticipated in the design and PLC programming of a new production line including several field trips to the suppliers	<i>Shanghai, CN</i>	<i>Jul 2021 - Aug 2021</i>
Shanghai Aircraft Customer Service Co., Ltd. <i>Intern, Institute of Operation Support Technology</i> <ul style="list-style-type: none">Supported designing and developing the thru flight check and maintenance IoT devicesDeveloped independently a useful python tool that helps estimate the flight cost of various aircrafts, with features such as cost comparison among different aircrafts, load planning and visualization. The tool will be used on 100+ flights per yearAssisted in the establishment of the IoT device lab and Cloud computing center, and proposed an equipment list based on the R&D strategy of the company	<i>Shanghai, CN</i>	<i>May 2021 - Jun 2021</i>
Yaskawa Shougang Robot Co.,Ltd. <i>Intern, Test Engineer</i> <ul style="list-style-type: none">Learned the hardware and software mechanism of industrial robot arms control, including PLC, robot teaching, etcSupported professional engineers to build an automobile chassis welding assembly line, using Yaskawa robot arms	<i>Shanghai, CN</i>	<i>May 2019 - Jun 2019</i>

OTHER EXPERIENCES

ASME student Club at RPI <i>Student Member</i> <ul style="list-style-type: none">Led a manufacturing team that took charge of 3D printing parts in the school's robot teamCollaborated with school's rapid prototyping club to process our order and designed a hollow pattern that helps reduce printing time and cost at minimum impact to part's strength	<i>Troy, NY, US</i>	<i>Mar 2019 - May 2022</i>
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