Dingming Lu

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https://www.dingminglu-lab.com

OBJECTIVE:

To get an internship at a company, and contribute with my problem-solving skill, critical thinking skill, and collaboration skill at the position of designing, developing, and testing mechanical hardware.

EDUCATION: Purdue University, West Lafayette, IN. Bachelor of Science in Mechanical Engineering.		Overall GPA: 3.97/4.00 Jan. 2021 - Dec 2024
Ba	chelor of Science in Unmanned Aerial System.	Aug. 2019 - Dec 2024
W	ORK EXPERIENCE:	
•	Flight Dispatcher in Unmanned Aerial System Laboratory - Purdue Polytechnic Institute	Aug. 2022 - Present
	 Explore and prepare new equipment, and connect them to the lab. Investigate problems with the instructor for labs. Check-out and check-in the drones and prepare related equipment for students. Do the equipment and lab room maintenance, such as firmware updates. 	West Lafayette, IN
٠	Human Resources Assistant - Leadhigh Education (Remote)	May 2021 - Aug. 2021
	Screened resumes, recruited and interviewed teachers, and communicated effectively between teachers and HR. Managed classes for teachers and students.	
٠	Drone Pilot - Greenpeace.	Aug. 2014 - Mar. 2016
	- Flew DJI S1000 over the polluted environment and coal mines and took pictures.	China, Mainland
DE	SIGN PROJECTS:	
٠	Computer-Aided Design and Prototyping: Final Project: Radio Controlled Des Moines	Oct Dec. 2023
	Designed main turret that can fire airsoft and change pitch and yaw angles with strict size constraints. Used rapid prototyping skill to build and test all subsystems, including self-designed pump for 6mm airsoft beads. Integrated servos, solenoids, gears, and electrical components to the whole firing control system and decoration. Received <i>Best Engineering Award</i> from the School of Mechanical Engineering.	
٠	Computer-Aided Design and Prototyping: Midterm Project: Racing and Battle Bot	Sept - Oct. 2023
	 Designed and built the chassis that was suitable for both racing and battle, and both won the second place. Designed and built sloped armor with 3D printed part, aluminum sheet, and laser cutter. Integrated mechanical, electrical, and control systems by using hardware skill and coding skill. 	
٠	UAS Apps, Data And Doc: Final Project: Analysis of Purdue Wildlife Area	Apr. 2023
	 Used Pix4DCapture, DJI Mavic 2 Pro, and survey grade ground control points to gather data of the target area. Used Pix4DMapping and ground control coordinates to generate high-precision map and DSM data. Use ArcGIS Pro to analyze the target area and generate maps for desmonstraiting purposes. 	
•	ME Design, Innovation And Entrepreneurship: Hands-Free Door Opening System	Jan May 2022
	Designed a system that can open a door without using hands and electricity.Collaborated with teammates to optimize the design.	
	- Set up models to analyze the performance of the sub-components.	
٠	Measure Control Systems II: Line-Following Robot, Purdue University.	Mar May. 2023
	- Developed algorithms that let the robot follow the black line on the competition field.	
	 Did research and built customized tools for troubleshooting. Troubleshot internal bugs from myRio and made adjustments accordingly. Finely tuned the PID and the sensors to get the best performance. 	
<u>SK</u>	ILLS:	
•	Coding Skill: MATLAB, Programming C Language.	
٠	Software Skill: SolidWorks, PTC Creo, CATIA, Siemens NX 12, Pix4DMapping, ArcGIS Pro.	
•	Hardware Skill: Mill, Lathe, Band Saw, Jigsaw, TAZ 6 3D Printer, Carvey CNC, sheet metal related tools.	

CERTIFICATIONS:

• Certifications: Remote Pilot Certificate (from Federal Aviation Administration).