

Chianli Hang

Mechanical + Software Engineer

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Portfolio: www.chianli.io

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Skills

Expertise	Full-Stack, CAD, CAM, Manufacturing, PCB Design, UX, UI, Business Development, Graphic Design	
Tools	[Fluent]	SvelteKit, Javascript, Typescript, HTML/CSS, SOLIDWORKS, CNC Machining, Keyshot, Node.js, MongoDB, Git, Mach3, Scrum, Figma, Illustrator, Photoshop
	[Proficient]	Rust, C, C++, Python, Matlab, SQL, Ansys, EAGLE, Google Cloud
Soft Skills	Leadership, Public Speaking, Project Management, Agile Methodologies	

Recent Relevant Experience

Lead Developer, Brand Consultant, Founder - lanternfly.io	Now Aug 2022
<ul style="list-style-type: none">* Designed 99 page website for top spindle distributor with Figma, built with SvelteKit, deployed with Google App Engine to revamp brand identity and increase contacts by 10%.* Conducted client meetings to create effective brand strategy, assets, and style guide.	
Web Dev, Design, Biz Dev, Mechanical/Manufacturing, Co-founder - THE CNC COMPANY	Sep 2022 Mar 2021
<ul style="list-style-type: none">* Developed company ecommerce website, designing with Figma, using SvelteKit and MongoDB with a Google App Engine server to display products and drive sales optimized by user data.* Prototyped desktop CNC mill "Machinist" with 0.001" precision metal-cutting capabilities.<ul style="list-style-type: none">~ Project managed design of machine with Agile to hit deadlines and increase productivity.~ Modeled machine with SOLIDWORKS with special emphasis on creating a unique frame for space-efficiency and simplicity.* Prototyped 4x6 ft. CNC router "Carpenter" with 0.002" precision.<ul style="list-style-type: none">~ Modeled machine with SOLIDWORKS while making strategic decisions to keep machine under \$5000 market price.~ Manufactured custom components with CNC mill, allowing for quick and precise prototyping.~ Conducted initial assembly of entire machine and electrical components.~ Tested machine, resolving bugs with racking, jamming, and electrical interference.* Designed brand assets with Illustrator and implemented into marketing such as website and pamphlets with style guide, creating unique and memorable brand identity.* Managed legal and financial side of business, processing \$20k+ of transactions. Developed strategy, acquired customers, created marketing, negotiated partnership with distributors.	
Aerobody Engineer - Rutgers Rocket Propulsion Lab	Jan 2022 Dec 2018
<ul style="list-style-type: none">* Assembled aerobody and built flight camera system hardware and electrical systems with SOLIDWORKS, laser cutter, and soldering to ensure smooth flight and footage for 2-stage 30K ft. apogee rocket - the highest flying amateur rocket on the East coast.* Optimized and assembled "Project Supersonic" rocket aerobody to reach Mach 1.35 max speed and built recovery system involving parachute and delayed detonation charge.* Designed and/or manufactured telemetry systems for multiple rockets, working with microcontrollers, flight computers, altimeters, GPS systems, cameras, and gyroscopes to track data and ensure recovery.* Mentored 20+ students into proficiency at SOLIDWORKS and more to understand rocket principles.	

Projects

- * Currently developing Mischif.io with SvelteKit, a platform to create or join amateur esports leagues.
- * Repaired 2011 Subaru Outback to working condition. Replaced brake lines, valve cover, brake calipers + rotors, and engine oil.
- * Engineered electrical systems of "Soccer Ball That Begs For Mercy When You Kick It" with Arduino, pressure sensors, and speakers.
- * Used SOLIDWORKS to create 3D printed wallet for personal use.
- * Designed with SOLIDWORKS and 3D printed face shields for medical staff during COVID.

References

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