Chianli Hang

ciliani mang						chianlihang	chianlihang@gmail.com	
Mechanical	Engineer					Portfolio: w	ww.chianli.io	
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Skills								
Expertise	CAD CAM FF	A Manufacturing So	oftware	Develop	ment PCB	Design Business Development		
Tools	[Fluent]	SOLIDWORKS, Fusion36o, CNC Machining, VCarve Pro, Mach3, 3D Printing, Scrum, Typescript, Javascript, Keyshot Rust, C, C++, Python, Matlab, SQL, Ansys, EAGLE, Google Cloud						
	[Proficient]							
Soft Skills	Leadership, Pu	ıblic Speaking, Project Management, Agile Methodologies						
Recent Rele	evant Expe	rience		-	-	-		
* Prototy ~ Proj tailo ~ Moo univ ~ Calo to d ~ Qua * Prototy ~ Moo und ~ Mar ~ Con to li ~ Test pro	ped desktop CN ject managed de ored for my tear deled machine w que frame for sp culated lifespan letermine plausi dity controlled f ped 4x6 ft. CNC deled machine w ler \$5000 marke nufactured custo iducted initial as ife as a working ted machine, res jects for clients	C mill "Machinist" w sign of machine, crea n to align goals, hit d with SOLIDWORKS ac acce-efficiency and sin of linear rails conside bility of designs. nal machine design i router "Carpenter" w with SOLIDWORKS w et price. m components with sembly of entire mac machine. olving bugs with racl using Carpenter as pa	ith o.oc ating a c eadlines cross 2 i mplicity ering en n prepa with o.c hile ma CNC m chine an king, jan art of th	in the control of the	sion metal- gile-based crease prod s with speci ntal factors or compone cision. tegic decis ing for quid cal compor and electric g process.	-cutting capabilities. project management system luctivity. ial emphasis on creating a s using given component data ent purchase. Sions to keep machine ck and precise prototyping. nents, bringing CAD models cal interference. Completed	Sep 2022 Mar 2021	
Aerobody En * Built ro of rocka ~ Ass ~ Con * Built "E ~ Ma cor ~ Des the * Built "F ~ Opt ~ Cre	ngineer - Rutg ocket to achieve a ensuing motors embled rocket a nducted launch- cagle II v4": a 2- nufactured and ntrol to ensure p signed flight can design with las Project Superson timized, manufa	ers Rocket Propulsion -3 rocketry certification with a total impulse erobody according to day logistics, perform stage 30K ft. apogee assembled aerobody, roper flight. hera system hardwark er cutter and solderin ic": a single-stage roo ctured, and assembled stem involving parage	n Lab ion for I greater o design ning nec rocket, t followin e and el ng to en cket des ed rocke chute ar	RRPL tea specific ressary q the high- ng design ectrical s sure smoothing igned to at aerobo	Immate, all 20 N-s. ations. Juality chec est flying st n specificat systems with both flight both flight break the ody to reached detonation	lowing for purchase and flight cks and GPS recovery post-flight. tudent rocket on the East coast. tions and performing quality th SOLIDWORKS, realizing and footage sound barrier. h Mach 1.35 max speed. on charge for safe descent.	Jan 2022 Dec 2018	

- ~ Designed, soldered, and tested telemetry system with microcontroller, barometric pressure sensor,
- and camera to fit into rocket's unique body tube and collect flight data.

* 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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