

Taden Ma

(626) 988-3384 | tadenleema@gmail.com | Monterey Park, CA 91754

Summary	Mechanical Engineering student at California State University, Fullerton, with hands-on experience in construction, mechanical fabrication, and automotive design through Formula SAE. Skilled in SolidWorks, MATLAB, and mechanical system prototyping.		
Education	California State University - Fullerton , Fullerton, CA <i>B.S. in Mechanical Engineering - GPA: 3.73</i>	<i>Expected Fall 2027</i>	
Experience	Luc's Construction , Los Angeles Metropolitan Area, CA <i>Carpenter / Electrician / Plumber</i> <ul style="list-style-type: none">Contributed to the full-cycle construction of 10+ residential and commercial projects, executing structural framing, electrical wiring, and plumbing installations in compliance with local building codes, resulting in 100% first-pass inspection approvals..Installed and programmed Control4 smart home systems, integrating lighting, HVAC, security, and access control systems, improving energy efficiency and increasing client system usability and satisfaction.Maintained OSHA-compliant job sites for 5+ years with zero lost-time incidents, prioritizing safety and workflow efficiency.	<i>June 2021 - Present</i>	
	The Boiling Crab , Los Angeles & Orange County, CA <i>Maintenance & Repair</i> <ul style="list-style-type: none">Performed preventative maintenance and troubleshooting on HVAC, commercial kitchen equipment, plumbing, and electrical systems, reducing equipment downtime and preventing costly emergency repairs.Diagnosed and resolved mechanical and electrical issues efficiently, improving operational continuity during peak business hours.	<i>December 2023 - Present</i>	
Projects	Formula SAE - Titan Racing , Fullerton, CA <i>Underclassman - Mechanical Engineer</i> <ul style="list-style-type: none">Designed and manufactured an adjustable ergonomic measurement jig to capture driver anthropometric data, improving cockpit fit validation and reducing vehicle design iteration time.Designed and fabricated a modular engine test stand to safely support and instrument the powertrain for bench testing and throttle system validation.Designed and implemented an electronic throttle control system using a microcontroller to actuate the intake butterfly valve, incorporating fail-safe logic and ensuring compliance with FSAE safety regulations.Modeled and routed hydraulic brake and clutch systems and mechanical throttle assembly in SolidWorks; performed brake force distribution and pedal ratio calculations and integrated adjustable brake bias to optimize front-to-rear braking performance under dynamic load transfer.	<i>Summer 2025 - Present</i>	
Leadership	Formula SAE - Titan Racing , Fullerton, CA <i>Underclassmen Lead - Project Management</i> <ul style="list-style-type: none">Led and mentored a team of 35 underclassmen in technical design and fabrication projects, fostering collaboration and accountability across subteams.Developed structured onboarding initiatives and recurring technical workshops on SolidWorks, fabrication methods, and FSAE design principles, increasing active member participation by 75%.Developed a streamlined tracking system for raw stock to finished parts, managing the hand-off between CAD design, CNC/Waterjet fabrication, and final TIG welding onto the chassis, preventing assembly delays and improving shop floor efficiency.	<i>Fall 2025 - Present</i>	
Skills	Microsoft Office MATLAB Electrical Wiring	SolidWorks Waterjet & CNC Carpentry	ANSYS Power & Hand Tools 3-D Printing
Certifications	OSHA 10 Hour Construction	Control4 Home Automation Installer Programmer	Lean Six Sigma White Belt
