

BLASE LONDOÑO

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EDUCATION	Bachelor of Science			9/2024 - Present
	University of California, San Diego <ul style="list-style-type: none">Major in Mechanical Engineering, Expected June 2028Specialization in Controls and RoboticsCurrent GPA: 3.95			
TECHNICAL SKILLS	<ul style="list-style-type: none">MATLABArduino CFusion 360	<ul style="list-style-type: none">AutoCADAltium Designer3D Printing	<ul style="list-style-type: none">Laser CuttingSolderingPython	<ul style="list-style-type: none">JavaLaTeXCanva
EXPERIENCE	Mentee, Apple Next-Gen Innovators Mentorship Program			10/2025 - Present
	<ul style="list-style-type: none">Selected for Apple's Next-Gen Innovators Mentorship Program (11 students from UCSD, 22 universities nationwide).Regularly consulted Apple Senior Product Designer for advice on professional development, robotic design relating to work at UCSD Yonder Dynamics.			
	Undergraduate Student Researcher, Bandaru Group			10/2025 - Present
	<ul style="list-style-type: none">Assisting graduate students with electrical measurements of semiconductor dielectrics under joint project between Professors Prabhakar Bandaru and Kenji NomuraSupported electrical characterization using Keysight B1500A semiconductor analyzer			
	UCSD Yonder Dynamics			
	Mechanical Team Member			10/2025 - Present
	<ul style="list-style-type: none">Contributing to mechanical design and development of chassis systems for URC Mars rover competition platformCollaborated on CAD modeling in OnShape to redesign rover wheels, implemented weight-reducing truss system into main body and suspension.			
	Electrical Team Member			10/2024 - 10/2025
	<ul style="list-style-type: none">Reengineered rover power distribution PCB for 24V 60A capacity, reduced footprint 20% through optimized component placementImplemented high-current trace routing and thermal management; performed fabrication including crimping, soldering, wire sheathing			
	Mechanical Team Member, IEEE-HKN MacroPad Project			2/2025 - Present
LEADERSHIP	<ul style="list-style-type: none">Designed 2-layer parametric keycap for integrated 0.6" OLED display with flexible housing adaptable to subteam requirementsValidated design through iterative prototyping and physical testing			
	MATLAB Tutor, UCSD MAE Department			8/2025 - 9/2025
	<ul style="list-style-type: none">Tutored ~35 students in MATLAB fundamentals: vectors, loops, functions, plottingDeveloped challenge problems featuring Monte Carlo methods, PDE analysis, Fourier series			
	MATLAB Pirouette Movement Recognition Project			8/2024 - 9/2024
	<ul style="list-style-type: none">Developed LSTM model in MATLAB to classify dancer movements from IMU time-series data, achieving >85% accuracyDocumented methodology and results for analysis paper			
	Social Media Manager, UCSD Men's Club Water Polo			8/2025 - Present
LEADERSHIP	<ul style="list-style-type: none">Redesigned team Instagram (@ucsdmcwp) with updated branding and Linktree integration for schedules/registrationManaged consistent posting schedule for games, practices, and announcements			
	Sponsorship Chair, IEEE-HKN Kappa Psi			2/2025 - Present
	<ul style="list-style-type: none">Secured Honors Networking Event corporate attendance, led Career Fair email campaignConsolidated 15+ years of email data into spreadsheet to optimize campaign			