

# BLASE LONDOÑO

blasejlondono@hotmail.com | 424-744-0575 | linkedin.com/in/blase-londono

<b>EDUCATION</b>	Bachelor of Science University of California, San Diego <ul style="list-style-type: none"><li>Major in Mechanical Engineering, Expected June 2028</li><li>Specialization in Controls and Robotics</li><li>Current GPA: 3.95</li></ul>			9/2024 - Present
<b>TECHNICAL SKILLS</b>	<ul style="list-style-type: none"><li>MATLAB</li><li>Arduino C</li><li>Fusion 360</li><li>AutoCAD</li><li>Altium Designer</li><li>3D Printing</li><li>Laser Cutting</li><li>Soldering</li><li>Python</li></ul>			<ul style="list-style-type: none"><li>Java</li><li>LaTeX</li><li>Canva</li></ul>
<b>EXPERIENCE</b>	<b>Mentee, Apple Next-Gen Innovators Mentorship Program</b> <ul style="list-style-type: none"><li>Selected for Apple's Next-Gen Innovators Mentorship Program (11 students from UCSD, 22 universities nationwide).</li><li>Regularly consulted Apple Senior Product Designer for advice on professional development, robotic design relating to work at UCSD Yonder Dynamics.</li></ul>			10/2025 - Present
	<b>Undergraduate Student Researcher, Bandaru Group</b> <ul style="list-style-type: none"><li>Assisting graduate students with electrical measurements of semiconductor dielectrics under joint project between Professors Prabhakar Bandaru and Kenji Nomura</li><li>Supported electrical characterization using Keysight B1500A semiconductor analyzer</li></ul>			10/2025 - Present
<b>UCSD Yonder Dynamics</b>	<b>Mechanical Team Member</b> <ul style="list-style-type: none"><li>Contributing to mechanical design and development of chassis systems for URC Mars rover competition platform</li><li>Collaborated on CAD modeling in OnShape to redesign rover wheels, implemented weight-reducing truss system into main body and suspension.</li></ul>			10/2025 - Present
	<b>Electrical Team Member</b> <ul style="list-style-type: none"><li>Reengineered rover power distribution PCB for 24V 60A capacity, reduced footprint 20% through optimized component placement</li><li>Implemented high-current trace routing and thermal management; performed fabrication including crimping, soldering, wire sheathing</li></ul>			10/2024 - 10/2025
	<b>Mechanical Team Member, IEEE-HKN MacroPad Project</b> <ul style="list-style-type: none"><li>Designed 2-layer parametric keycap for integrated 0.6" OLED display with flexible housing adaptable to subteam requirements</li><li>Validated design through iterative prototyping and physical testing</li></ul>			2/2025 - Present
	<b>MATLAB Tutor, UCSD MAE Department</b> <ul style="list-style-type: none"><li>Tutored ~35 students in MATLAB fundamentals: vectors, loops, functions, plotting</li><li>Developed challenge problems featuring Monte Carlo methods, PDE analysis, Fourier series</li></ul>			8/2025 - 9/2025
	<b>MATLAB Pirouette Movement Recognition Project</b> <ul style="list-style-type: none"><li>Developed LSTM model in MATLAB to classify dancer movements from IMU time-series data, achieving &gt;85% accuracy</li><li>Documented methodology and results for analysis paper</li></ul>			8/2024 - 9/2024
<b>LEADERSHIP</b>	<b>Social Media Manager, UCSD Men's Club Water Polo</b> <ul style="list-style-type: none"><li>Redesigned team Instagram (@ucsdmcwp) with updated branding and Linktree integration for schedules/registration</li><li>Managed consistent posting schedule for games, practices, and announcements</li></ul>			8/2025 - Present
	<b>Sponsorship Chair, IEEE-HKN Kappa Psi</b> <ul style="list-style-type: none"><li>Secured Honors Networking Event corporate attendance, led Career Fair email campaign</li><li>Consolidated 15+ years of email data into spreadsheet to optimize campaign</li></ul>			2/2025 - Present