

Blase Londoño

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Education

University of California, San Diego , BS in Mechanical Engineering	Expected June 2027
<ul style="list-style-type: none">GPA: 3.96/4.00Coursework: Statics, Dynamics, Vibrations, Material Science, Linear Circuits, Thermodynamics, Fluid Mechanics, Signals and Systems	

Experience

Mechanical Team Member , UCSD Yonder Dynamics – La Jolla	Oct 2025 – Present
<ul style="list-style-type: none">Designed and manufactured new wheel hubs for pneumatic wheelsForm-fitted hub curvature to wheel in Onshape, wood-lathed epoxy resin-layered carbon fiber mold, employed vacuum bag carbon fiber layup, routed clearance holes using CNC millReduced hub weight by 50%	
Electrical Team Member , UCSD Yonder Dynamics – La Jolla	Oct 2024 – Oct 2025
<ul style="list-style-type: none">Redesigned two-layer rover power distribution PCB.Built custom schematic and layout in Altium Designer, added new fuse blowout indicator lights, employed polygon pours and trace thickness specifications for proper thermal management.Reduced PCB footprint by 20%.	

Projects

Robot Competition Project	Mar 2025 - June 2025
<ul style="list-style-type: none">Designed and fabricated a ring-collecting robot with 28" vertical extensionCreated rack-and-pinion mechanism through laser-cut acrylic walls and gears, 3D-printed shafts bent sheetmetal base and drill-pressed tap and clearance holesDeveloped complete CAD model using both Autodesk Fusion360 and AutoCAD	
LSTM Pirouette Recognition Project	Aug 2024 - Sept 2024
<ul style="list-style-type: none">Developed custom LSTM neural network in MATLAB to classify pirouette movements from IMU time-series data.Processed multi-dancer dataset and implemented complete training pipeline.Documented methodology in technical paper with faculty guidance, achieved >95% classification accuracy	

Skills

Manufacturing: CNC Machining, Manual Machining, Wood Lathe, Laser Cutting, 3D Printing, Composite Materials, Soldering, Sheet Metal Fabrication

Software: Autodesk Fusion 360, AutoCAD, Onshape, Altium Designer, MATLAB