

# SKYLER LEWIS

## Mechanical Engineering

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Recent mechanical engineering graduate with strong academic project work in prototyping and design testing. Skilled in CAD, MATLAB, and 3D printing. Brings collaborative mindset and attention to precision in problem-solving and model development.

## Key Skills

<div></div>	3D printing
<div></div>	CAD (SolidWorks)
<div></div>	Circuit analysis
<div></div>	MATLAB
<div></div>	Prototype development
<div></div>	Technical documentation

## Academic Projects

January 2024 - May 2024	<b>Autonomous Delivery Robot Design</b> <i>Senior Capstone</i> <ul style="list-style-type: none"><li>Designed and assembled a small-scale robot with ultrasonic sensors to navigate a 50-foot path with 95% accuracy</li><li>Integrated Arduino board with motor systems, achieving obstacle avoidance using C++ programming</li></ul>
September 2023 - December 2023	<b>Wind Turbine Efficiency Optimization</b> <i>Energy Systems Lab</i> <ul style="list-style-type: none"><li>Modeled various turbine blade shapes in SolidWorks, increasing simulated energy output by 28%</li><li>Conducted wind tunnel testing and compiled performance data in MATLAB for presentation to faculty panel</li></ul>

## Education

June 2024	<b>Bachelor of Science (B.S.) in Mechanical Engineering</b>	San Diego State University   San Diego, CA
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## Certifications

**Certified SolidWorks Associate (CSWA) | 2024**