

YOUWEN WU

Santa Barbara, CA | Danville, CA

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I'm passionate about *design*—in all its facets—including systems, web, graphics, typography, and more. I love working on hard problems.

EDUCATION

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|---|------------------------|
| University of California, Santa Barbara | 2024 — 2028 (expected) |
| <ul style="list-style-type: none">• B.S. <i>in</i> Mathematics | |
| University of California, Santa Barbara | 2024 — 2028 (expected) |
| <ul style="list-style-type: none">• B.S. <i>in</i> Computer Science | |

EXPERIENCE

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| UCSB Robotics Lab | 11/24 — now |
| <i>Systems programmer</i> | Santa Barbara, CA |
| <ul style="list-style-type: none">• Designed reproducible build systems massively speeding up development iteration• Creating 3D simulacrums of laboratory experiments that are reproduced in real life, using C++, React, and Three.js | |
| FIRST Robotics Team 1280 | 09/22 — 06/24 |
| <i>Artificial intelligence lead</i> | SF Bay Area, CA |
| <ul style="list-style-type: none">• Worked on autonomous decision making and path planning algorithms• Replaced the venerable BozoAuto autonomous subroutine with the DeepBozo autonomous suite• Designed a novel robot control dashboard with 3D visualization using Rust, Tauri, and Svelte• Won 2022 Monterey Bay Regional Competition | |

PROJECTS

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| Virion | 2025 |
| <ul style="list-style-type: none">• Compartmental epidemic modeler and 3D pandemic visualizer for the H5N1 avian influenza in the United States• Won award at the UCSB DataOrbit Hackathon | |
| Jankboard | 2024 |
| <ul style="list-style-type: none">• A bespoke driver control dashboard for Team 1280's 2024 competition robot• Tauri application, with Svelte frontend and Rust glue code to communicate with robot• 3D robot visualization using Three.js | |

AWARDS AND HONORS

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| National Merit Semifinalist | 2024 |
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