Yanis Yankauskas

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Education

University of California Santa Barbara **Expected June 2026**
Bachelor of Science (B.S.) in Mechanical Engineering Santa Barbara, CA

- Campus involvement: SAE, ASME, Hansma Research Lab
- Relevant Courses: Toy Product Design, Introductory Concepts in Mechanical Engineering

Professional Experience

Undergraduate Student Research Assistant **September 2022 - Present**
Hansma Research Lab Santa Barbara, CA

- Designed electronics packaging in Solidworks for a consumer biomedical electronics product; Focusing on ease of assembly, manufacturability, and ergonomics.
- Designing a custom low energy bluetooth PCB in KidCad to greatly decrease power draw, optimize charging, and reduce assembly time and cost.

Projects

Aerodynamics Team Member **September 2022 - Present**
UCSB Formula Society of Automotive Engineers (FSAE) Santa Barbara, CA

- Researching sidepod design for maximum thermal dissipation and minimum drag.
- Ran confirmation CFD studies in Ansys for a 2D airfoil with my simulation generating results within 5% error of experimental data.

Subsystem Lead **January 2022 - June 2022**
FIRST Robotics Competition (FRC): Team 972, Iron Claw Los Gatos, CA

- Managed a team of 10 to design the ball acquisition, indexing, and shooting subsystems on the team's 2022 FRC robot in Onshape, leading to the best competition performance out of 18 years.
- Led a team of 10 students in using iterative laser-cut and 3D-printed prototypes on 3 subsystems on the team's 2022 FRC robot to identify issues, which for the first time in 18 years allowed time for coding and practicing.
- Designed an aluminum upside-down electrical board in Onshape for easier access and serviceability to all electrical components, allowing 3 critical fixes during competition and decreasing the electrical inspection time.

CAD Lead, CAD Team Member **August 2019 - June 2022**
FIRST Robotics Competition (FRC): Team 972, Iron Claw Los Gatos, CA

- Created and taught a curriculum on CAD, CAM, and design for FRC to 15 students, leading to an increase in the quality of parts and assemblies, and more design contributions from newer members.
- Collaborated with other team leads to design a drivetrain and electrical board for more engaging off-season training and in-team competitions; 5 were machined leading to a better learning experience for 50 students.
- Researched solutions for ball jamming for the 2019 FRC robot and came up with a passive wheel roller that was machined and worked 80% of the time.

Educational Quiz and Blog | SQL, Javascript, HTML, CSS **March 2020 - May 2020**

- Programmed a 20 question quiz using SQL and Javascript that recorded each response and then displayed graphs of quiz results based on various demographics, collecting over 200 data points.
- Integrated a writing interface in javascript for admin users to be able to create and post informational articles, including sorting by category and catered recommendations after the introductory quiz.

Technical Skills

Software: Solidworks, Ansys, KiCad, Fusion 360, Fusion 360 CAM, Autodesk Inventor, Onshape, Illustrator, Javascript, SQL
Mechanical: 3D Printing, Laser Cutting, CNC Router, CNC Mill, Hand tools, Calipers
Electrical: Soldering, Wiring, Crimping