Yanis Yankauskas

408-338-8696 | pilotyan@gmail.com | linkedin.com/in/yanisyankauskas | Santa Barbara, CA

EDUCATION

University of California Santa Barbara

Expected June 2026

Bachelor of Science (B.S.) in Mechanical Engineering, GPA 3.84, Dean's Honors

Santa Barbara, CA

- Campus involvement: FSAE, Hansma Research Lab
- Relevant Courses: Design and Construction of Scientific Apparatus, Intro to Machine Shop, Radiative Energy Transfer (taking), Toy Product Design

PROFESSIONAL EXPERIENCE

Undergraduate Student Research Assistant

September 2022 - Present

Hansma Research Lab

Santa Barbara, CA

- Designed electronics packaging in Solidworks/Onshape for a consumer biomedical electronics product; Focusing on ease of assembly, injection molding manufacturability, and ergonomics.
- Designing injection molds for the casing in Onshape to be 3D-Printed in resin and used to manufacture cases for future studies.
- Designed multiple iterations of a custom low-energy Bluetooth PCB in KiCad to greatly decrease power draw, optimize charging, and reduce assembly time and cost.
- Developed a Low-Energy Bluetooth application in C on the Zephyr RTOS for an nRF SoC. Programmed drivers for communicating over I2C and SPI to collect and display sensor data.

EXPERIENCE

Aerodynamics Team Member

September 2022 - Present

UCSB Formula Society of Automotive Engineers (FSAE)

Santa Barbara, CA

- Researched composite manufacturing and assisted in leading testing and validation of manufacturing wing elements using foam strengthened with resin-impregnated fiberglass sheets.
- Manufacturing foam mold to be used in making a composite nosecone for the final car.
- Ran confirmation CFD studies in Ansys for a 2D airfoil with my simulation generating results within 5% error of experimental data. Then tested multiple airfoils profiles at different angles of attack too maximize lift.
- Researched side pod design for maximum thermal dissipation and minimum drag.

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.
- 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.
- 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.

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 developed a passive wheel roller that was machined and worked 80% of the time.

TECHNICAL SKILLS

Software: Solidworks, Onshape, Ansys, KiCad, Fusion 360, Fusion 360 CAM, Autodesk Inventor, Blender

Mechanical: CNC Mill, 3D Printing, Laser Cutting, Lathe, Hand tools

Electrical: Soldering, Wiring, Crimping