

Jameson Nation

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Education

California State University, Fullerton

B.S. Physics - Expected graduation: Spring 2027

Relevant Coursework:

Electromagnetism • Waves & Optics • Modern Physics • Mathematical Physics

Thermodynamics & Statistical Physics • Engineering Graphics • Digital Computation

Projects and Laboratory Experience

FM Radio Transmitter and Receiver System

- Designed, built, and tested an **FM radio transmitter and receiver** using discrete components and IC-based modules.
- Used **oscilloscope, function generator, and DMM** to verify signal behavior, voltage levels, and system operation.
- Diagnosed **power-supply and loading issues** impacting receiver performance and implemented validated fixes.
- Performed breadboard prototyping and basic soldering to ensure reliable electrical connections.

Physics Laboratory Work — CSUF

- Conducted experiments in **electromagnetism, optics, and mechanics** using standard laboratory instrumentation.
- Collected, processed, and analyzed experimental data using **Excel** with regression, curve fitting, and uncertainty analysis.
- Evaluated sources of error and system limitations; presented findings in concise technical lab reports.

Additional Hands-On Experience

Mechanical & Systems Work

- Automotive diagnostics and race-kart repair projects involving mechanical assembly and troubleshooting in Formula SAE.
- Experience following **safety procedures, torque specifications, and reliability checklists** under real operating conditions.