

# JAMES BLAKE

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*Applied  
Physics*

## SKILLS

**Software:** MATLAB, AutoCAD, Python, SolidWorks, Microsoft Office

**Operating Systems:** MacOS, Windows, Linux Ubuntu

**Languages:** Spanish, English

## EDUCATION

**Bachelor of Science in Applied Physics, Emphasis in Technology** Spring 2021

California State University, Channel Islands, Camarillo, CA

Relevant Courses: Electromagnetism, Digital Image Processing, Object Oriented Programming

## RESEARCH EXPERIENCE

**Robot, Robotics Institute** Spring 2019

- Constructed smaller circuits using a protoboard to power a beeper, LED, clock, memory chip, and two motors.
- Conducted test course analysis related to robotic movements in order to program in sequential order.
- Combined circuits to create a mini programmable robot.
- Programmed Robot to successfully complete test course.

## WORK EXPERIENCE

**Engineering Student Intern** Summer 2019

NASA Jet Propulsion Laboratory (JPL), Pasadena, CA

- Designed, outlined, tested, and programmed a modular autonomous robot with multifunctional.
- Transmissions, accurate and robust dead-reckoning navigation with error correction, and functional aesthetics.
- Designed, outlined, tested, programmed, and fabricated various prototypes of a multiple input touchscreen interface; market, manufacturing, and development costs and analysis figured prominently throughout the project.
- Ran analysis on the WFIRST baseline optical model and placed the data in graphs and tables to match similar documentation produced for JWST.
- Ensured baseline optical models for WFIRST in both Zemax and CodeV matched.

**Student Assistant** August 2018 - Present

Student Life Office, CSU Channel Islands, Camarillo, CA

- Communicate with students, staff and faculty regarding student support and services
- Answer telephone and route calls as appropriate
- Complete projects for staff, such as organizing data on spreadsheets