Jason Park

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EDUCATION

University of California, Berkeley | GPA: 3.74   *May 2027*
B.S. *Materials Science & Engineering*
Coursework: Semiconductor Fabrication, Materials Properties/Characterization, Polymers, Physics, Solid Mechanics, Crystallography

PROFESSIONAL EXPERIENCES

Lawrence Berkeley National Laboratory   **Berkeley, CA**
Research Assistant   *May 2025 - Present*
- Investigated semiconductor properties, analyzing charge transport, durability, and catalytic activity for clean energy applications
- Analyzed copper X-ray absorption spectroscopy data to identify electronic structure patterns relevant to clean energy materials
- Carefully designed and refined publication-quality graphs using MATLAB for materials characterization reports
- Simulated photocatalytic oxygen evolution reaction (OER) pathways on TiO_2 using Kinetiscope to evaluate catalytic efficiency

IPMD Inc.   **San Mateo, CA**
Engineering Intern   *Apr. 2022 - 2024*
- Prototyped camera rigs and 3D-printed mounts using CAD, optimizing mechanical stability and materials selection for optics
- Partnered with ML team for hardware-software integration; improved device scanning, raising throughput and lowering end-to-end latency
- Collected and labeled 1,200+ images across 8 pose conditions; cleaned data to <3% label error for AI model consistency

Workday   **Pleasanton, CA**
Technology Consultant   *Sep. 2025- Present*
- Led a market scan of 10+ learning experience platforms and evaluated each one rigorously to reach final recommendations
- Created a data-driven, software LXP prototype reflecting target experiences for must-have features and seamless integration

PROJECTS AND ACTIVITIES

Bias Lighting PCB Layout and Design   **Berkeley, CA**
Hardware Design Engineer   *Aug. 2025 - Present*
- Designed and fabricated a custom printed circuit board(PCB) for a bias lighting system from scratch using KiCad, integrating a microcontroller, programmable LEDs, and a camera interface to enable real-time color scanning for lighting synchronization
- Performed full hardware development cycle, including soldering, schematic design, PCB layout, and 3D-printed housing design

Front Wing Pylon Structural Optimization   **Berkeley, CA**
Mechanical Design and Structural Analysis Engineer   *Sep. 2025 - Nov. 2025*
- Developed detailed 3D CAD models of lightweight front wing pylons in SolidWorks, integrating manufacturable geometries, external loads, and material constraints to achieve a final mass of 0.1 lb through iterative design for manufacturing and strength
- Executed topology optimization to minimize weight while maintaining stiffness, reaching a factor of safety of 2.6
- Conducted finite element analysis(FEA) to assess stress, deflection, and buckling to optimize stiffness-weight ratio

AI-Driven Dental Risk Prediction System   **Santa Clara, CA**
Project Engineer   *Oct. 2022 - 2023*
- Built an AI application called iDENTify to prevent adverse drug reactions; contacted local dentists to gain testimonials
- Utilized engineering tools and computer science to design and train our application through medical datasets, synced the dentist's procedures to the patient's medication to ultimately utilize an AI model to optimally alert any possible dental risks that may occur

Purdue Semiconductor Fabrication 101   *Sep. 2025*
- Earned a certificate in semiconductor fabrication from Purdue University, Intel, and UT Austin focused on microfabrication
- Gained applied knowledge of key fabrication techniques, including lithography, thin film deposition, oxidation, and etching
- Developed a foundational understanding of semiconductor process flows, industry-standard tools, and cleanroom operations

MSEA, Materials Science and Engineering Association   **Berkeley, CA**
Corporate Relations Officer   *Sep. 2024 - Present*
- Organized 10+ tech talks with professionals from companies including TSMC, Micron, and KLA for 200+ engineering students
- Coordinated research panels with PhD students, alumni, and upperclassmen to share career tips with undergraduate students

Pi Sigma Epsilon   **Berkeley, CA**
Director of Professional Development and External Relations   *Jun. 2025 - Present*
- Led targeted outreach and tailored proposals to high-growth firms, lifting reply rates 25% and improving conversions 10%
- Ran career workshops for 40+ members; organized 20+ alumni panels and grew corporate sponsorships 20% with office tours

ADDITIONAL INFORMATION

Skills: Python, MATLAB, SolidWorks, KiCad, Materials Characterization (SEM, XRD, XPS), Thin-Film Deposition, FEA, CAD, Thermodynamics, Crystallography, Photolithography
Interests: Soccer, Climbing, Snowboarding, Running, Gym, Star Wars, Movies, Music, Orchestra, Clarinet, Cooking, Korean Culture