Christine Day

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EDUCATION

California Polytechnic State University, San Luis Obispo
Bachelor of Science in **Physics**, Expected May 20xx

Relevant Coursework: Lasers and Applications, Advanced Optics Lab, Quantum Lab (I, II), Computational Physics

PROFESSIONAL EXPERIENCE

Tropospheric Composition Group Intern June 20xx – September 20xx
Jet Propulsion Lab | Pasadena, CA

- Analyzed and visualized atmospheric composition data from the TES (Tropospheric Emission Spectrometer**)** spacecraft
- Processed large remote-sensing datasets to identify trends, anomalies, and measurement artifacts
- Supported Earth science research through data validation, documentation, and collaboration with scientists

Optical Communications and Radiation Safety Group Intern June 20xx – September 20xx
Jet Propulsion Lab | Pasadena, CA

- Developed and evaluated Raspberry Pi-based ADS-B (Automatic Dependent Surveillance Broadcast) receiver
- Revised aircraft detection program and developed custom scripts for remote data collection and analysis
- Compiled and digitized decommissioned radioactive isotopes into NRC compliant database

RESEARCH EXPERIENCE

Cold Atom Student Researcher April 20xx – October 20xx
Student-Faculty Research | San Luis Obispo, CA

- Researched the development of cold atom traps for quantum computing using neutral Rb87 atoms
- Designed, built, and aligned an injection-locked laser system for atomic cooling and trapping
- Coupled and optimized laser beam delivery into a Magneto-Optical Trap (MOT) using pinhole diffraction techniques

LEADERSHIP EXPERIENCE

Vice President September 20xx – June 20xx
Women in Physics, Cal Poly Chapter | San Luis Obispo, CA

- Co-led chapter operations, strategic planning, and regular meetings to support member engagement
- Organized outreach and professional development events for undergraduate physics students
- Advanced inclusion and peer mentorship within the physics department through targeted initiatives

SKILLS

Programming & Analysis: Python, SQL
Modeling & Experimental Tools: MATLAB, IDL, LabVIEW, HFSS; optical/laser, vacuum, RF techniques
Systems: Linux/Unix/Windows