

Jacqueline Harper



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Education

CREOL - University of Central Florida, Orlando FL

Expected Graduation: December 2025

•B.S. in Photonic Science and Engineering, Minor in Engineering Leadership

Scholarships

•Peter J. Gehoski Memorial Scholarship Recipient, Florida Bright Futures Academic Scholar, UCF Pegasus Bronze

Work Experience

L3Harris - Advanced Laser Systems Technologies

June 2023 - August 2023

Optical Engineering Intern

- Prepared and positioned optical instruments, such as beam expanders and energy detectors, for experiments.
- Operated InGaAs cameras to capture high resolution images of laser beam profiles and the energy associated with them.
- Applied my SolidWorks skills to evaluate and compare component interactions and properties.

Chipotle - Union Park

May 2022 - September 2022

Front Service Cashier

- Facilitated transactions and managed inquiries from customers with a courteous and professional demeanor.
- Demonstrated strong leadership skills by training and supervising new team members.
- Collaborated seamlessly with coworkers to create a professional and efficient kitchen.

CREOL - University of Central Florida

January 2022 - May 2022

Undergraduate Research Assistant for Miguel Bandres

- Deconstructed a DNA sequencing machine to revitalize parts and repurpose multiple optics for microscopes.
- Capitalized on technical reading skills to carefully disassemble machine components.
- Repurposed technology for broader scientific applications.

Projects

Arduino Touch Paper Airplane Launcher

Spring 2022

- Created a Airplane Launcher by programming an Arduino IDE and utilizing the TFT library for touch screen interaction.
- Designed a circuit to allow the Arduino to command touchscreen, wheels and then launch the paper airplane.

Knights Lights

Fall 2021

- Used Google Sprint Methodology to improve on aspects of UCF's campus by integrating multiple engineering disciplines.
- Created a plan to implement improvements in UCF's parking garages based on a budget.

Skills

Certifications: AutoDesk AutoCAD Architecture and Revit 2019, Introduction to Fiber Optic Cabling

Proficient in: SolidWorks, Handling Optical Instruments, Technical Reading, Lab Training, Microsoft Office, Arduino, Alligning Lasers

Exposed to: Laser Characterization, MATLab, Zemax, BeamGauge, BOM Reporting, Lean Six Sigma

Extra Curriculars

•Volunteering at University of Central Florida's Arboretum

September 2022 - Current

•Volunteer member of Dave Finnigan's Green Actioneers Launch Team

February 2023 - April 2023

-Responsible for contacting professionals and helping children

•Secretary of ISO-Optica at University of Central Florida

August 2022 - May 2023

•Secretary of IEEE-Photonics at University of Central Florida

August 2021 - August 2022

-Collaborated with IEEE and CREOL to ensure the smooth execution of guest speaking events.

•Secretary of Women in Lasers and Optics at University of Central Florida

August 2021 - May 2022

-Facilitated engaging Q&A sessions and networking opportunities for attendees to interact with quest speakers.

