

Payton Parker

404-655-8464 | ppayton06@gmail.com | <https://www.linkedin.com/in/payton-parker-2980bb1ab/>

EDUCATION

University of Georgia – Honors Program, Athens, GA June 2023
Bachelor of Science in Astrophysics
Sustainability Certificate

Study Abroad May 2023
● DiscoverAbroad: People, Planet, Profit – Australia, New Zealand, Fiji

RESEARCH EXPERIENCE

University of Georgia Department of Chemistry – Athens, GA May 2022 – 2023
Undergraduate Research Assistant
● Constructed voltage divider circuit entering RF phase-locked loop and analyzed its stability using an Allan variance statistical analysis
● Delivered 15 minute presentations and 10-page research papers detailing two semester-long projects
● Re-filled excimer laser gas tank bi-weekly, soldered various electrical components, and operated drill press
● Aligned optics and ensured Gaussian beam shape using ABCD matrix in Excel

WORK EXPERIENCE

General Atomics – Livermore, CA August 2023 – Present
X-Ray Calibration Scientist

- Applies technical knowledge to analyze, investigate and resolve assigned scientific problems related to instrument calibration for various types of x-ray spectrometers

Cherry Street Energy – Atlanta, GA May 2021 – January 2022
Intern

- Attended investor meetings, learning about solar industry in the Southeast and how to sell an idea to stakeholders
- Gained experience in a variety of areas: legal, operations, design, marketing and sales, construction, procurement, and project management
- Executed business development tasks with limited guidance in a start-up company environment
- Generated entire roof installation guide for modified-bitumen asphalt roofs

Capstone Project (SUST4500) January 2023 – May 2023
● Lead on front-end sales project introducing City of Atlanta to novel idea of placing mobile solar array on clear wells

CORE (Community Organized Relief Effort) – Atlanta, GA June 2020 – January 2021
Program Associate

- Worked on a team as a first-responder during COVID19 pandemic and administered 100,000 free tests in low income areas before any other Mobile Unit Team

Graduate Hotels – Athens, GA

Banquet Server September 2022 – May 2023
Barista March – September 2022

- Exuded warmth to illustrate Athens culture while delivering to customers' concerns in a fast-paced environment

HONORS AND AWARDS

GSEF Intel Gold Medalist: Physical Science April 2017
● Awarded "Best in Category" in Physical Science for project on thermoelectricity at regional level and placed fourth in the state of Georgia

Dean's List May 2020
May 2021

RELEVANT COURSEWORK

Astronomical Observations and Techniques: ASTR3010 Fall 2022

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- Completed semester long photometry project where group members preprocessed images of delta and zeta Cephei using Python scripts. Preprocessed images were then imported to Aperture Photometry Tool to create radial light curves.

CAMPUS AND COMMUNITY INVOLVEMENT

Ocean Initiative – Athens, GA

President

August 2022 – 2023

- Primary organizer for trip to St. Simons Island to clean up the beach after GA-FL football game festivities
- Influential in expanding member involvement through increased coordination amongst other related organizations
- Managed small group of officers

Python (astronomy packages) | MATLAB | CAD | GIS | Excel