**Robin Hood**

123 Sesame Street, Chittenango, NY 13037 | (315) 470.6900 | rhood@syr.edu

**Summary of Qualifications**

* Research driven with specific focus on solar pv, microbalance, and elemental analysis usage
* Experience collecting and compiling data, performing scientific analysis, and preparing technical reports and presentations to explain findings
* Proficient in Nanoscope Analysis software and Microsoft Word, Excel and PowerPoint

**Education**

**State University of New York College of Environmental Science and Forestry (ESF),** Syracuse, NY

Bachelor of Science: *Environmental Science*, focus in Renewable Energy, *December 2023*

**Nassau Community College,** Garden City, NY Associate of Science: *Liberal Arts and Science* , *May 2021*

Phi Theta Kappa Honor Society

**Relevant Experience**

**Quantum Energy and Sustainable Solar Technologies (QESST)**, Arizona State University

*Research Experience for Undergraduates (REU) Intern*, *May-August 2023*

* Participated in an intensive program to learn the industrial process of manufacturing solar cells
* Collaborated with Project Investigator and Graduate Student Mentor to assist in their research of Cadmium Telluride, Cadmium Zinc Telluride, and Cadmium Magnesium Telluride solar cells lifetime and conductivity
* Utilized Time Resolved Photoluminescence (TRPL) (Picosecond Time-Correlated Single Photon Counting I (TCSPC1) to observe the lifetime of photons in Cadmium Telluride alloys
* Utilized Scanning Probe Microscopy (Bruker MultiMode 8) to examine the surface roughness and surface potential of Cadmium Telluride alloys
* Compiled information into Excel and Nanoscope Analysis to determine avg. lifetime, roughness, and potentials

**Brookhaven National Laboratory (BNL) Winter Program**

*Undergraduate Participant*, *January 2023*

* Engaged in lectures from scientists about their work and conducted reverse interviews of scientists
* Introduced to computer programing classes on C ++ and Python

**Environmental Protection Agency (EPA) Region 2**, New York, NY

*Mobile Source Department Intern, June-July 2022*

* Updated Federal Register to enhance the EPA’s records
* Used the EPA’s online Diesel Emissions Quantifier to estimate the amount of diesel emissions reduced in medium-heavy to heavy-heavy vehicles
* Assisted in answering questions from the public surrounding transportation related grants

**The Willow Project**, ESF

*Research Intern, November 2021-May 2022*

* Retested samples from Shrub Willow biomass through microbalance and elemental analyzer usage
* Analyzed data to contribute to the ongoing study of Carbon/Nitrogen levels in Shrub Willow
* Reviewed available literature to compare ESF results to those already known
* Assisted Project Director and graduate students throughout all phases of the study

**Leadership and Campus Involvement**

**Ladies Against Social Stigma,** ESF | *Participant* *September 2021-Present*

**Sustainable Energy Club,** ESF | *Participant*  *September 2021-Present*

**Office of Admissions,** ESF **|** *Student Ambassador* *September 2021-Present*