

Liba Snyder

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OBJECTIVE

To obtain an internship position in the field of Mechanical Engineering

EDUCATION

University at Buffalo

MAY 2027 (EXPECTED)

B.S. MECHANICAL ENGINEERING

WORK EXPERIENCE

INTERN | **Circuits, Electrochemistry, and Data Analysis**

Objective: Developing electrochemical biosensors for virus detection

- Prepared sensitive multi-step working electrodes using pipettes to set up electrochemical experiments
- Conducted cyclic voltammetry experiments to characterize system response, signal sensitivity, and noise behavior
- Analyzed experimental data using MATLAB and Excel to identify performance trends and inform iterative design changes
- Developed a MATLAB-based GUI integrating circuit models and electrochemical governing equations to optimize electrolyte parameters and improve cycle efficiency
- Collaborated with faculty mentors and research partners and presented the findings to the Rockland IDA Board.

Rockland Industrial Development Agency

April 2025 - August 2025

LICENSED GOVERNMENT COURIER

Objective: Secure and time-sensitive document transport for U.S. government agencies

- Deliver and pickup passports directly to government agencies while maintaining strict chain-of-custody and confidentiality requirements
- Operate under legal courier licensing regulations to ensure compliance with Department of State security protocols
- Coordinate logistics and delivery schedules between private clients and government offices to meet expedited service deadlines
- Developed familiarity with federal administrative processes, identification verification standards, and agency communication procedures

Express Passport Company

September 2023 - Present

LEADERSHIP

- President of Biology Club: Organized research events and student engagement activities
- Vice President of Hillel Club: Coordinated cultural programs and volunteer initiatives
- Member of President's Society: Recognized for academic excellence and leadership
- Debate Team: Developed skills in public speaking and critical thinking
- Volunteer for Mayanot Israel Program: Supported agricultural recovery and food distribution

TECHNICAL SKILLS

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|--------------|--------------------|---------------------------|
| • SolidWorks | • MATLAB | • Research and Testing |
| • GitHub | • Electrochemistry | • Problem Solving |
| • Robotics | • 3D printing | • Technical Documentation |