Adriana Oleksak

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EDUCATION

New York Institute of Technology, 1855 Broadway **Expected: May 2026**

Bachelor of Science in Electrical and Computer Engineering with Minor in Mathematics

- **Relevant Courses:** Computer Programming I/II, Data Structures, Element of Discrete Structures, Electrical Circuits I/II, Electronics I/II, Electronics Laboratory I/II/III, Computer Organization and Architecture, Microprocessors & Embedded Systems, Electromagnetic Theory I, Signals and Systems, Control Systems, Communication Theory, Random Signals and Statistics, Calculus I/II/III, Linear Algebra, Differential Equations
- **Honors:** Participates in the Dean's Honor Program
  Named to Presidential Honor List for the Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024 Semester
- **Scholarship:** Awarded Theodore K. Steele Memorial Scholarship
- **GPA:** 3.95

Leon M. Goldstein High School for the Sciences, 1830 Shore Blvd **09/2018 - 06/2022**

Graduated with Advanced Regents Diploma with Mastery in Math and Science

WORK EXPERIENCE

Research Assistant under Ziqian Dong, Ph.D **October 2024 to Present**

- Responsible for performing basic tasks and assisting in various functions within the department, requiring basic skills attained through on-the-job training, working mainly with other students.
- Assisted in experimental design and contributed to ongoing publications, performing literature reviews and organizing results.

Undergraduate Research and Entrepreneurship Program **October 2024 to Present**

- Worked on research/entrepreneurship project in a group setting, under the guidance of faculty mentors.
- Responsible for capacitive sensing research, soldering, PCB design, and other electrical engineering aspects of the project.

RELEVENT PROJECTS

Data Structure for Medical Office **Spring 2024**

- Worked to create a program that manages a list of patients for a medical office, as well as relevant information assigned to a patient
- Gained experience creating linked list and other relevant data structures in Java

Morse-Code to English Converter **Spring 2024**

- Created a program that takes in morse code and decodes it into English
- Experienced working with creating binary trees in Java

Active Noise Cancellation System Design **Fall 2024**

- Lead a group to design and implement an active noise-cancellation (ANC) system that processes a 30-second music input and an external noise disturbance, outputting the noise-canceled music signal.
- Developed a block diagram to represent the functional components of the system, highlighting the signal flow and the feedback mechanisms.

Indoor Echo Localization System Design **Fall 2024**

- Lead a group to design a system capable of detecting the source of sound using multiple microphones and tracking the sound source with a camera.
- Simulated and demonstrated an indoor echo localization system, visualizing the systems operations and outputs.

SKILLS

Programming: Java, Python, C, MATLAB
Hardware/Software: proficient in LTSpice, PSpice, NI Multisim, AutoCAD, Raspberry PI, Microsoft Office (Word, PowerPoint, and Excel)
Languages: English, Polish, Beginner Swedish
Others: Active listener, Adept, Organized, Strong work ethic, Strategic planner, Creative