

# Elizaveta Koroza

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## EDUCATION

### New York University

Brooklyn, NY

*Bachelor of Science in Computer Engineering*

Expected May 2028

Relevant Coursework: Introduction to Engineering and Design, Introduction to Programming and Problem Solving, Calculus II, Writing for Inquiry, Data Structures and Algorithms, Linear Algebra and Differential Equations, Mechanics, Introduction to Electrical and Computer Engineering, Advanced Writing for Engineers, Object Oriented Programming in C++ (in progress)

## TECHNICAL SKILLS

**Programming:** Python, C++, Arduino, VBA, HTML, CSS, Javascript

**Hardware & Tools:** Breadboarding, Soldering, PCB Assembly, Multisim, KiCad, Teensy Microcontroller, 3D Printing (Objet30, Cura, Bambu Studio), Autodesk Fusion360, Autodesk Inventor, CNCMotion, RoboCell

**Other:** Microsoft Office Suite, Google G Suite

## WORK EXPERIENCE

### NYU MakerSpace

Brooklyn, NY

*Undergraduate Worker*

January 2025 – Present

- Assist students with technical projects, recommending appropriate tools for their projects.
- Train students on fabrication and prototyping tools including 3D printers (Objet30, Bambu), vacuum former, vinyl cutter, drill press, vertical bandsaw, and basic power tools.
- Provide hands-on support for 3D printing operations, troubleshooting errors, and optimizing print quality.
- Enforce safety regulations within the MakerSpace to maintain a secure working environment.

### Con Edison

Manhattan, NY

*Computer Aide Summer Intern*

July 2024 – Aug 2024

- Programmed a user-friendly website utilizing Python for Senior System Operators and Scheduling Operators featuring data scraping and transformer analysis tools to improve outage scheduling efficiency.
- Performed Transformer Contingency Analysis to determine transformers' abilities to handle load based on system conditions such as season and time.
- Collaborated in analysis of outage requests and output conclusions in reports.
- Provided a presentation to the executive staff of Con Edison on this project.

Manhattan, NY

*Computer Aide Summer Intern*

July 2023 – Aug 2023

- Automated Outage Analysis spreadsheets using VBA to apply operational rules of the Bulk Power System.
- Performed process analysis and collected data requirements to automate analysis for scheduling equipment out of service.
- Analyzed existing computer database information used for scheduling, identifying discrepancies, and linking dependencies in new database required to take equipment out of service.

## PROJECTS

### VIP Robotic Design Team

Brooklyn, NY

*Electrical Engineer*

January 2025 – Present

- Conducted current sensing research, evaluating shunt resistor and amplifier configurations for accurate motor current measurement and designed schematic diagram for Current Sensing Power Distribution Board
- Tested Falcon 500 and VESC motors using Arduino IDE and Teensy microcontroller for data collection.
- Supported PCB soldering and testing, verifying circuit functionality and assisting in robotic hardware integration.

### Semester Long Design Project

Brooklyn, NY

*Student*

September 2024 – December 2024

- Designed a CAD model using Autodesk Fusion360, developed a circuit schematic based on power requirements, and assembled the corresponding electrical circuits.
- Collaborated with teammate on hardware/software integration and troubleshooting for code and documentation.
- Managed team workflow using Microsoft Project, ensuring timely deliverables.