

Adam Otsuka

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EDUCATION

Northeastern University

Bachelor of Science in Electrical and Computer Engineering

Boston, MA

September 2025 – June 2027

Union College

Bachelor of Science in Electrical Engineering and Computer Science

Schenectady, NY

September 2023 – June 2025

EXPERIENCE

Sustainability Grant Project Manager

Union College

September 2023 – June 2025

Schenectady, NY

- Constructed a machine that revolutionizes plastic recycling by turning it into reusable 3D-printing material
- Composed multiple grant proposals and received over \$2000 for the project's manufacturing and marketing
- Sourced components for the machine sustainably with used 3D-printer parts and biodegradable plastics
- Created a giant *Nott Memorial* sculpture from the material to represent campus waste in a physical format
- Instructed students and staff on operating the machine for future innovations on the idea

Community STEM Program Vendor

Kenney Center Community Engagement

March 2024 – June 2025

Schenectady, NY

- Organized STEM-related educational activities for future STEM students
- Built an electric race car track using the engineering design process to meet safety requirements
- Programmed a microcontroller to display a slo-mo camera to show the heat winner and fastest car's speed
- Engaged with K-8 students to provide help with car building and educate on basic engineering principles

CAD Engineer and Shop Assistant

Studio Roboto

May 2023 – December 2023

White Plains, NY

- Assisted Senior Fabrication Technicians with Laser-Cutting, 3D-Printing, CAD Design, and Sculpture Crafting
- Optimized customer requests to create the perfect product based on customer specifications

PROJECTS

Sheets2Spotify | *Python, Git*

January 2024 – June 2025

- Programmed a Python application that extracts song titles from Google Form entries, makes web requests to the Spotify API to search for song titles corresponding to the student-submitted entries, and creates a dedicated playlist automatically
- Used during various campus-wide events for Union College, where thousands of students congregated

Mindpixels AI — BR41N.io IEEE SMC Hackathon | *Python, Javascript, HTML, Git*

October 2024

- Researched and implemented AI tools for video generation, utilizing Stable Video Diffusion, to interpret and visualize EEG data
- Created custom image datasets for g.tec's Unicorn Blondycheck to ensure accurate brainwave-to-video translation, improving system performance and reliability
- Collaborated with a multidisciplinary team to design and deploy the application, ensuring integration of frontend and backend components for optimal performance

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, MATLAB

Frameworks: React, Node.js, Django REST, JUnit, WordPress, Excel, Arduino

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ

Libraries: pandas, NumPy, Matplotlib, Spotipy, Google API

Engineering Skills: 3D-printing, Laser-cutting, Modeling, Milling, Welding, Lathing, Soldering, PC Assembly

Software Skills: SolidWorks, OnShape, AutoCAD, Intel Quartus, PrusaSlicer, Photoshop, Illustrator, After Effects, Premiere Pro, Adobe Animate, Cinema 4D