

Jaeho Cho

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EDUCATION

The Cooper Union for the Advancement of Science and Art

New York, NY

Bachelor of Engineering in Electrical Engineering

Graduating 2026

- Half Tuition Scholarship & Myron Coe Scholarship
- **Relevant Coursework:** Frequentist Machine Learning, Digital Signal Processing, Communication Theory, Hardware Design, Electronics, Data Structures & Algorithms, Computer Architecture, Linear Algebra, Ordinary & Partial Differential Equations, Probability, Biology

EXPERIENCE

The Cooper Union • New York, NY

Sep 2022 – Present

Vertically Integrated Project (Bioengineering)

- Developing an open-source robotic arms solution for real-time compliant interaction.
- Built a robotic pose mimicking system utilizing MediaPipe, OpenCV and ROS2.
- Designed & printed a PCB for an eTextile sensor, presented at the ASTM International Exo Games.

PWC • Seoul, South Korea

May 2024 – Aug 2024

Data and AI, Hanwha TotalEnergies Petrochemical

- Developed time series forecasting models to predict flagship petrochemical product prices.
- Refactored backend data pipelines & developed a web backend to support business analyst operations.

Mount Sinai • New York, NY

Feb 2024 – Aug 2024

Mechanical Exposure Study

- Spearheading the in-depth analysis of Xsens Inertial Measurement Unit (IMU) data with MATLAB, aimed at quantifying mechanical strain on old-aged physical laborers.

St. Joseph's Medical Center • Yonkers, NY

Jun 2023 – Jul 2023

Shadowed Dr. Steve Doh

- Observed patient procedures performed by Anesthesiologist Dr. Doh and his team of varying specialties, including endoscopies, laparoscopies, orthopedics, and open surgeries.

The Cooper Union • New York, NY

Jul 2021 – Aug 2021

Medicine and Machine Learning, Summer STEM program

- Investigated the onset of Alzheimer's by applying statistical analysis in python (using pandas and matplotlib libraries) to Age and nWBV data to predict MMSE scores.

PROJECTS

Prosthetic Hand

Aug 2021– Sep 2023

- Designed and 3D-printed a myoelectric prosthetic hand with six degrees of freedom.
- Partnered with an individual, born without a left hand, providing realistic unfiltered feedback.

SKILLS

- **Programming:** Python, MATLAB, C, C++, Verilog, Git, SQL, Django, React
- **Software:** ROS2, Blender, Onshape, Fusion360, Inventor, Altium, Vivado, Virtuoso, LTspice
- **Certification:** NYS EMT, CPR