

# Harris Paspuleti, EIT

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## EDUCATION

### THE COOPER UNION

#### M.S. IN MECHANICAL ENGINEERING

May 2022 | New York, NY

Albert Nerken School of Engineering

### THE COOPER UNION

#### B.E. IN MECHANICAL ENGINEERING

May 2021 | New York, NY

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### LIVINGSTON HIGH SCHOOL

May 2017 | Livingston, NJ

## HONORS

Half Tuition Scholarship

Estelle Daniel Maggin Scholarship

## CERTIFICATIONS

Fundamentals of Engineering

IC3 Digital Literacy

OSHA-10

## COURSEWORK

Mechatronics

Industrial Robots

Mobile Autonomous Robots

Advance Product Development

Frequentist Machine Learning

Deep Learning

Computer Aided Engineering (FEA)

Manufacturing Engineering

Project Management

## CLICKABLE LINKS

LinkedIn:// [Click for LinkedIn](#)

Portfolio:// [Click for Portfolio](#)

Invention Factory:// [Click for Invention](#)

Robotics CAD Video:// [Click for Video](#)

## SKILLS

### DESIGN AND PROTOTYPING

Proficient

SolidWorks • AutoCAD • Python • Circuit

Logic • LaTeX • MATLAB • Microsoft

Office • ANSYS • 3D Printing • Machining

Intermediate

C • C++ • JavaScript • Manufacturing •

Fluent • BIM

Familiar:

OpenSCAD • PTC Creo • Fusion 360

## EXPERIENCE

### JACOBS ENGINEERING GROUP | MECHANICAL ENGINEER

May 2021 – Present | New York, NY

- Conduct computational fluid dynamics (CFD) analysis for New York Pennsylvania Station subway system renovations using SolidWorks and Fluent.
- Write emergency response plan for heavy-traffic infrastructure systems.
- Work in an interdisciplinary team to design, develop, and verify 2D site plan drawings using AutoCAD and BIM.

### PORT AUTHORITY OF NY & NJ | ENGINEERING AIDE

July 2020 – May 2021 | New York, NY

- Develop "As Built" drawings and keep track of progress of the site through Daily Narratives and pictures.
- Manage in field operations and contractors at the World Trade Center site.
- Conduct monthly audits for a \$1,500,000 Work Order.
- Process time and material slips for contractors.

## PROJECT WORK

### WORLD RECORD RUBIK'S CUBE | DEVELOPER

May 2018 – December 2018 | New York, NY

- Designed a 3D model of a 6' tall Rubik's cube to be publicly displayed.
- Conducted a systematic analysis of the supporting structure.
- Manufactured custom composite material.

### (W)AIRABLE: AIR QUALITY DETECTOR | INVENTOR

July 2018 – August 2018 | New York, NY

- Designed, developed, and manufactured a new product, (W)Airable to monitor and alert the user of hazardous ambient air in their proximity.
- Filed for and received a Provisional Patent for the (W)Airable device.
- Implemented an iterative design process to develop a meaningful product for first-responders.

### PRINCETON MEDICAL HACKATHON | 1<sup>ST</sup> PRIZE WINNER

April 2018 | Princeton, NJ

- Developed "Blink" an augmented tele-psychiatry app for therapists to use to more accurately diagnose their patients.
- Determine a solution for the specific problem in Computational Neuropsychiatry.

### TRANSTIBIAL PROSTHETIC LEG | DEVELOPER

September 2017 – August 2018 | New York, NY

- Designed a prosthetic limb for diabetes patients in Soroti, Uganda.
- Conducted rapid prototyping to test several conceptual models.
- Interacted with the clients on new iterations of the prosthetic.
- Presented the final design and conclusions to an audience of over 100 people.

### FIRST TECHNOLOGY CHALLENGE | TEAM CAPTAIN

September 2013 - June 2017

- 3 time World Championship Think Award for detailed robot documentation.
- Captain of 15 member World Championship Winning team.
- Deans List Semi-finalist.