

# Christopher Mignano

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## EDUCATION

### The Cooper Union, New York City

September 2017 - May 2021

Bachelor of Engineering in Mechanical Engineering, May 2021

Major GPA: 4.0/4.0 – Overall GPA: 3.37/4.0

### Regis High School, New York City

September 2014 - June 2017 -- Overall GPA: 3.8/4.0

## PROJECTS & EXPERIENCE

### Center for Innovation and Applied Technology

Lead Research Assistant: May 2019 - Present

Working alongside Prof. Robert Dell to develop thermoelectric generators using heat from geothermal steam wells to harness energy and build a heated garden to facilitate horticulture in extreme environments.

### World's Largest Rubik's Cube Spring 2018 - Present

Sponsored by the Cooper Union, organized a team of engineering students to build the world's largest functioning Rubik's Cube. Project leader. Responsibilities include: design, fabrication, assembly, and testing.

### The Cooper Union Hyperloop Team

Acceleration Subsystem Team Lead: Summer 2018 - May 2019

Lead engineer for the Cooper Union Hyperloop Acceleration Subsystem for the SpaceX Hyperloop One competition. Responsible for propulsion system design, fabrication, and testing.

### Cooper Motorsports

Pedals, Business, and Sponsorship lead: May 2019 - Present

Lead of Pedals, Business, and Sponsorship subsystems following work in the prior year on composites manufacturing.

### Prosthesis Design and Fabrication Fall 2017

Responsible for designing and manufacturing a low cost prosthetic leg for residents of Soroti, Uganda suffering from peripheral neuropathy.

### American Society of Mechanical Engineers

Cooper Union Chapter President: Fall 2019 - Present

President of the Cooper Union's Chapter of ASME. Responsible for organizing events, promoting membership, hosting seminars, and more. Working in collaboration with other Cooper clubs.

## SKILLS & LANGUAGES

### Software:

SolidWorks, OnShape, AutoCAD, Microsoft Office, Python, Arduino, MATLAB, Illustrator, Photoshop, ANSYS

### Machining:

Lathe, Mill, Drill press, Band saw, Composite fabrication, Laser & Plasma cutters, CNC mill, TIG Welding

### Languages:

Fluent: English & Greek  
Proficient: Latin  
Basic: Spanish

## AWARDS & RECOGNITION

National Speech and Debate Society - NY State Public Forum Debate Champion

The Cooper Union  
Half academic scholarship

Regis High School  
Full academic scholarship

People's Government of Beijing Municipality - Intl. Exchange Peace Prize

## TUTORING & MENTORSHIP

Tutor for K-12 students - general academic, high school entrance exams, SAT, ACT.

Peer Mentor - acting peer mentor for the Cooper Union, facilitating smooth transitions for underclassmen

## Full List of Technical Courses

Engineering Design and Problem Solving

Engineering Graphics

Principles of Design

Statics

Materials Science

Dynamics

Mechanics of Materials

Principles of Electrical Engineering

Systems Engineering

Engineering Thermodynamics

Design and Prototyping

Independent Study: Modeling of Remotely Operated Vehicle Motion

Independent Study: Rubik's Cube

Iceland Study Abroad: Center for Innovation and Applied Technology

### **Fall 2019 Semester:**

Fundamentals of Aerodynamics

Computer Aided Engineering

Electroacoustic Engineering

Feedback Control Systems

Fluid Mechanics

Stress and Applied Elasticity

Process Control Laboratory