

Petros Sklavounos

NYC, USA | +1 646 4277255 | petros.sklavounos@cooper.edu | petrossklavounos.github.io

Education

The Cooper Union for the Advancement of Science and Art

New York, USA

BE Mechanical Engineering (3.37 GPA), Graduation: May 2024

Projects, [click here for full portfolio](#)

Energy Efficiency Building Systems Project

New York, USA

Optimizing CO2 Sensor Placement In Classrooms Via CFD and Sensor Data Analytics

November 2023

- Employed Solidworks Flow Simulation and real-time sensor data analysis to optimize CO2 sensor placement in a room with Python and Excel

Machine Learning Projects

Sudoku Solver from Picture, Elevator Predictive Maintenance, Spam detection

June 2023

- Python and machine learning model solutions for diverse projects

Howard Silfin ME Internship Award Recipient

New York, USA

Manufacturing Wind Tunnel Test Section

May 2023

- Managed a \$2,000 project to create a portable Cooper Union air tunnel replica in 12 weeks, cutting costs by 60% through efficient design decisions
- Implemented tolerances for measurements in CAD for laser cutting and CNC milling the plexiglass and steel plates, adhering strictly to set client design specifications

The Cooper Union Hyperloop Team

New York, USA

Frames Subsystem Lead

2021 – present

- Designing a truss-style frame that will be manufactured for the upcoming competitions
- Optimizing subsystem builds with ANSYS Finite Element Analysis
- Managing team of eight with semi-weekly sprint presentations and meetings

Work Experience

Department of Buildings, Boiler Division Mechanical Engineering Intern

New York, USA

Nominated Panelist for Engineering Discussion

June 2022- October 2023

- Performed 30+ mechanical room and elevator inspections across NYC, aligning with NYC Codes to check compliance
- Developed a boiler inspection checklist adopted by 50+ inspectors and insurance firms, improving process efficiency and safety compliance through standardization
- Led the creation of technical training resources and safety operating procedures for all agency departments, collaborating with the Assistant Commissioner and Agency Directors

KPMG Lower Gulf

Dubai, UAE

IT Department Intern

July 2019

- Implemented large-scale data transfer for client base on Microsoft Customer Relationship Management system, enhancing data management efficiency

Volunteer

Special Olympics World Games Abu Dhabi

2018 –2019

Nominated Guard of Honor for Special Olympics Torch Ceremony at Sunmarke School

Qualifications

Skills

- | | | |
|---|--------------|--------------------|
| – OSHA 10 Certified (2023) | – AutoCAD | – MatLab |
| – Outstanding Cambridge University Learner Award (2018) | – SolidWorks | – Ansys |
| – Duke of Edinburgh Silver Standard (2017) | – LaTeX | – Altair Hypermesh |
| | | – Machining |

Debating: World Scholars Cup Gold Medalist at Yale University Final, Vietnam Global ,and Dubai Regional

Hobbies

Avid golfer (Handicap: 9.0) and tennis player with distinctions in Dubai, Greece, and Cyprus