

Napali Raymundo

Portfolio: napali.raymundo.org | +1 (718) 757-4201 | Email: napali@raymundo.org

EDUCATION

Brown University, Providence RI

August 2020 · May 2024

Bachelors of Science with Honors in Physics | GPA: 3.8/4

- Notable Coursework: Solid State Physics, Quantum Field Theory, General Relativity, Statistical Mechanics, Photovoltaics Engineering, Electronic Circuit Design, Fluid Mechanics, Complex Analysis, Quantum Optics

LZ Dark Matter Collaboration, Gaitskell Lab, Brown University

September 2021 · May 2024

Undergraduate Research Assistant

- Conducted R&D to optimize the collection efficiency of the Hamamatsu 11410 PMT, using custom PCB configurations specific to the LZ collaboration's light requirements
- Designed and built single-photon pulsing dark box equipment for use in HV cryostat for PMT evaluation

WORK EXPERIENCE

STUDIO SUN LLC, Brooklyn, NY

October 2025 - Present

Founder

- Started a design-build studio specializing in custom bespoke carpentry and interior lighting design
- Developed spectrally accurate blackbody lighting controller which live-emulates outdoor light

MITICO, Newark, NJ

October 2024 · October 2025

Consulting Engineer

- Designed, built, and operated a point-source carbon capture reactor for climate-tech startup
- Analyzed sorbent using X-Ray diffraction, FT-IR spectroscopy, and electron microscopy
- Developed data analysis pipeline to evaluate and optimize sorbent performance and kinetics

ATOMICS, Newark, NJ

Jan 2024 · October 2024

Engineering Intern

- Designed nanoliter molecular detection and dispersal systems for a data-driven early-stage biotech startup
- Prototyped dispersal systems through rapid iterations of custom PCB designs and mechanical components
- Developed data encryption and detection pipelines for prototype security

Fulcrum Product Development, Providence, RI

October 2021 · May 2022

Electrical Engineer Consultant

- Designed and built electronic systems for an industrial scale 3dprinter
- Utilized CAD, milling, and lathing, to produce pillow blocks, ball screws, and various parts for the printer

The Wheeler School, Providence, RI

September 2021 · May 2024

Robotics and Computer Science Teacher

- Guided students in research, CAD, and construction for the FTC robotics competition
- Taught Java programming basics, control system fundamentals, PID loops, OpenCV, and localization

Brown University Design Workshop, Providence, RI

September 2021 · May 2024

Monitor

- Led daily workshops on safety protocols and best practices for machine usage in the shop
- Trained new monitors on advanced machine-shop tool use

The Dalton School, New York, NY.

Fall 2019, Fall 2020

Engineering Department Consultant

- Designed and constructed a rooftop aquaponic garden for education and food production
- Taught CAD, fabrication, Java, and engineering fundamentals as engineering department technician.

SKILLS

Programming: Python, Java, C++, C, Javascript, SQL, Mathematica, Matlab, ...

Software: Solidworks, Blender, Rhino, Fusion 360, Autodesk Eagle

Fabrication: CNC, Lathe, Laser Cutter, SLA/FDM 3-D Printer, Woodshop tools, PCB Assembly

Languages: Fluent in French and Tagalog