

# MATHIEU A. JOHNSON

Northampton, MA • Ph: (413) 320-7874 • <https://mathieu.media/>

## Education:

Stanford University, expected graduation June 2027

- Coterminal degrees, earned simultaneously: MS in Mechanical Engineering, BS in Design
- 3.85 GPA Overall; 4.00 GPA in Mechanical Engineering; 4.05 GPA in Design

Northampton High School, graduated June 2021

- Academic Excellence Award (for highest overall GPA)
- Tulane University Book Award for academic excellence, leadership, community service
- United Way Young Community Leader Award for “Face Shields to Save Lives” (2020)
- National Honors Society, junior and senior year (2020-2021)

## Work experience:

COBRE for Opioids and Overdose, Rhode Island Hospital, Summer 2024

- Developed naloxone (Narcan) container iterations using focus group feedback

Science Undergraduate Laboratory Internship, January-May 2024, National Renewable Energy Lab, Golden, CO

- Assessed efficiency of DC microgrid field deployment and compared to AC simulation

Summer Intern, July-September 2022, Chen Lab, Mechanical Engineering Department, University of Massachusetts Amherst

- Assayed tensile strength of novel laser-treated refractory high-entropy alloys (HEAs)

Teacher, Introduction to 3D Printing, LEAP Afterschool Program, Leeds Elementary School, Northampton Public Schools (September 2018-March 2020)

- Independently taught weekly 90-minute classes of 3D modeling in TinkerCAD

## Community Service:

Founder, Face Shields To Save Lives (April-July 2020)

- Raised \$6,040 to produce 2,010 3D-printed face shields for frontline healthcare workers
- Assembled and PPE to hospitals, food banks, and shelters; supervised volunteers

**Skills:** Fusion 360 (3D modeling & FEA), Figma, 3D printing, design thinking, Python, C++

**Personal interests:** Skiing, biking, hiking, tennis, baking, cooking, and video game level design

## References:

1. Traci Green, COBRE for Opioids and Overdose: [traci.c.green@gmail.com](mailto:traci.c.green@gmail.com)
2. Willy Bernal Heredia, Advanced Buildings Equipment Research Group, National Renewable Energy Lab: [willy.bernalheredia@nrel.gov](mailto:willy.bernalheredia@nrel.gov)
3. John Edmark, Lecturer, Department of Mechanical Engineering and Design, Stanford University: [edmark@stanford.edu](mailto:edmark@stanford.edu)
4. Wen Chen, Assistant Professor, Department of Mechanical and Industrial Engineering, UMass Amherst: [wenchen@umass.edu](mailto:wenchen@umass.edu)

**Portfolio:** See <https://mathieu.media/> for documentation of recent projects and employment.