

# PHILLIP A. SOUCY

(781) 698-8032 - phillip.soucy@gmail.com - www.phillipsoucy.info - Medford, MA

## ABOUT

Adaptable and pragmatic environmentalist seeking alternative career path with positive climate impact. A proven engineer with many transferable skills, including challenge mapping, problem solving, cross-functional collaboration, and technical communication. Eager to learn.

## RELEVANT EXPERIENCE

### Soucy Engineering

*Independent Product Development Contractor*

*September 2022 – Present*

- Self-employed engineer, seamlessly interfacing with client teams by adopting established design and communication styles
- Quickly and effectively learning niche client subject matter and nomenclature.
- Providing targeted expertise on the new product development process, namely:
  - Problem definition, concept development, technical analysis, detailed design, and functional and aesthetic prototyping.
- Independently responsible for administrative aspects of work, including coordinating scope with clients, budgeting, time tracking, invoicing and reporting.

### Helbling Precision Engineering, Inc.

*Project Engineer*

*May 2020 – September 2022*

- Worked in small, nimble teams (2 - 3 engineers) to conceptualize, analyze, and prototype innovative medical technology solutions for clients around the globe.
- Collaborated with team members to make critical path decisions, as well as manage timelines and budgets, vendors and manufacturing experts, and client expectations.
- Authored and presented weekly 1-hour client update presentations.

### MAKE Composites, Inc. / Desktop Metal

*Senior Mechanical Engineer*

*January 2019 – October 2019*

- Member of skunkworks program that delivered a functional proof-of-concept, desktop-scale carbon fiber “3D printer,” resulting in acquisition by partner, Desktop Metal.

### N12 Technologies, Inc.

*Production Engineer*

*May 2017 – November 2018*

- Collaborated with research scientists to maintain and improve experimental reactor
- Lead cross-functional hardware improvement program, resulting in 40-point improvement of production operating efficiency within 5-month period.
- Coordinated vendors and contractors while commissioning in- out-of-state industrial manufacturing facilities.

### Materials and Engineering Group LLC

*Engineering Consultant – Failure Analysis*

*October 2013 – April 2017*

- Investigated critically failed components from diverse industries using evidence tear-down, photo-observation, and modelling techniques to determine failure root-cause.
- Conceptualized, fabricated, and operated custom test fixtures on evidence and exemplar components to verify failure hypotheses and analytical predictions.
- Prepared and presented memos and reports documenting findings of failure analysis.

## EDUCATION

### Northeastern University

*Master of Science, Mechanical Engineering, Mechanics of Materials*

December 2017 – GPA 3.87 / 4.00

*Bachelor of Science, Mechanical Engineering*

May 2016 – GPA 3.76 / 4.00