

# PHILLIP A. SOUCY

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

## ABOUT

Versatile, hands-on engineer seeking to expand experiences via explorations of new industries. Cross-functional team-player, but still autonomous and self-driven. Fluent in material mechanics, and skilled at practical engineering, communication, and project management.

## RELEVANT EXPERIENCE

### Helbling Precision Engineering, Inc.

#### *Project Engineer*

*May 2020 – September 2022*

- Working in small, nimble teams (2 - 3 engineers) to conceptualize, analyze, and prototype innovative medical technology solutions for clients around the globe.
  - Projects include handheld mechanical devices, implants, and robotic surgical tools.
- Authoring and presenting weekly 1-hour client update presentations.
- Collaborating with project leads to make critical path decisions, as well as manage timelines and budgets, vendors and manufacturing experts, and client expectations.

### MAKE Composites, Inc. / Desktop Metal

#### *Senior Mechanical Engineer*

*January 2019 – October 2019*

- Member of skunkworks project that delivered a functional proof-of-concept, desktop-scale carbon fiber "3D printer," resulting in acquisition by partner, Desktop Metal.
- Managed overseas CM by communicating and verifying quality and performance specifications. Worked with CM managers to set realistic goals and pushed to accomplish.

### N12 Technologies, Inc.

#### *Production Engineer*

*May 2017 – November 2018*

- Spearheaded cross-functional hardware improvement program, resulting in 40-point improvement in production factor of operating efficiency (OEE) within 5-month period.
- Developed, implemented, and maintained CVD reactor maintenance log and SOPs, significantly reducing downtime due to proactive and reactive maintenance.
- Designed, built, and supported custom laser micrometry equipment to replace SEM quality control, reducing feedback time of quality metrics from weeks to minutes.
- Managed vendors and external engineering resources to ensure on-time and on-budget delivery of critical materials, components/systems (COTS and custom), and analyses.

### Massachusetts Materials Technologies LLC

#### *Co-Founder, Research Engineer, Safety Officer*

*March 2015 – April 2017*

- Supported mechanical hardware team during production phases by proofing technical drawings, sourcing material, milling and turning parts, and assembling sub-assemblies.
- Developed and maintained on-site safety program, including Chemical Hygiene Plan

### 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.

### Northeastern University

#### *Master of Science (Thesis), Mechanical Engineering, Mechanics of Materials*

December 2017 – GPA 3.87 / 4.00

#### *Bachelor of Science, Mechanical Engineering*

May 2016 – GPA 3.76 / 4.00

## SKILLS

Hands-On  
Competency



Technical  
Communication



Engineering Design



SolidWorks  
Design/Drawings



Project Management



## HOBBIES

Photography  
Cycling  
Hiking  
Cooking  
Guitar  
Gaming

## EDUCATION