

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 sustainable technologies. 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

- Worked 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.
- Authored and presented weekly 1-hour client update presentations.
- Collaborated 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

- Led mechanical engineering decision-making to successfully stand-up out-of-state industrial manufacturing facility, enabling 15x increase in capacity over pilot line.
- 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.

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



Mechanical Design



SolidWorks
Design/Drawings



Project Management



HOBBIES

Photography
Cycling
Hiking
Cooking
Guitar
Gaming

EDUCATION