Phillip A. Soucy

Contact Information

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Education

Northeastern University, Boston, MA
Master of Science in Mechanical Engineering, Mechanics — Expected May 2017
Select Courses: Mechatronic Systems, Control Systems, Elasticity and Plasticity, Material Processing and Manufacturing — (GPA 3.91 / 4.0)

Bachelor of Science in Mechanical Engineering — May 2016
Select Courses: Probability and Statistics, Microeconomics — (GPA 3.76 / 4.0)

Research Experience

Dept. of Mechanical and Industrial Engineering, Boston, MA
Pen Grip Force Mechanics — August 2016 – Present
Graduate Researcher under Dr. A. Gouldstone

- Analytically developing mechanics governing strain in body of pen based on various grips styles and forces.
- Goal of determining number and location of strain gauges to characterize grip of user.
- Potential applications in progressive degenerative muscular disease detection.

Professional Experience

Massachusetts Materials Technologies LLC, Cambridge, MA
Co-Founder, Research Engineer, Safety Officer — March 2015 – Present

- Leading proof of concept research on non-destructive fracture toughness evaluation
- Designing and fabricating prototype machine components
- Developing and maintaining on-site safety program, including Chemical Hygiene Plan
- Drafting and filing text and figures for provisional and non-provisional utility patents

Materials and Engineering Group LLC, Cambridge, MA
Engineering Consultant — October 2013 – Present

- Consulting as expert witness support for litigation cases up to $1 billion in losses
- Developing and implementing protocols for testing critical evidence and customer samples
- Drafting memos and reports for clients on technical findings and expert opinions
- Organizing and maintaining testing inventory, including evidence, notes, and reports

Keurig, Inc., Burlington, MA
Brewer Engineering Co-op — January 2013 – August 2013

- Developed automated testing apparatuses utilizing open-source electronics and programming
- Diagnosed brewer failures and implemented corrective prototype components
- Processed and analyzed data for internal engineering R&D qualification
- Presented test data to engineering and manufacturing teams in US and China

Honors and Awards

Member Pi Tau Sigma, Mechanical Engineering Honor Society
EMSA Administration Conference for Student Leaders
2014 Janet P. Mackie Good Fellowship Award

Skills

Technical: SolidWorks, Abaqus CAE/Standard, woodworking, machining
Programming: MATLAB, Simulink, Fundamental Arduino, C/C++, VBA
Practical: Technical writing, system integration, graphic design, digital photography

Hobbies and Interests

Computer technology, photography, video games, homebrewing, rock climbing, cycling, snowboarding, SCUBA diving