

# Phillip A. Soucy

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CONTACT INFORMATION	33 Norris Street Cambridge, MA 02140	Phone: (781) 698-8032 E-mail: phillip.soucy@gmail.com Website: www.phillipsoucy.info
EDUCATION	<b>Northeastern University</b> , Boston, MA <i>Master of Science in Mechanical Engineering, Mechanics</i> <i>Select Courses:</i> Mechatronic Systems, Control Systems, Elasticity and Plasticity, Material Processing and Manufacturing  <i>Bachelor of Science in Mechanical Engineering</i> <i>Select Courses:</i> Probability and Statistics, Microeconomics	Expected August 2017 (GPA 3.83 / 4.0)  May 2016 (GPA 3.76 / 4.0)
RESEARCH EXPERIENCE	<b>Dept. of Mechanical and Industrial Engineering</b> , Boston, MA <i>Pen Grip Force Mechanics</i> <i>Graduate Researcher under Dr. A. Gouldstone</i> <ul style="list-style-type: none"><li>◦ Analytically developing mechanics governing strain in body of pen based on various grips styles and forces.</li><li>◦ Goal of determining number and location of strain gauges to characterize grip of user.</li><li>◦ Potential applications in progressive degenerative muscular disease detection.</li></ul>	August 2016 – Present
PROFESSIONAL EXPERIENCE	<b>Massachusetts Materials Technologies LLC</b> , Cambridge, MA <i>Co-Founder, Research Engineer, Safety Officer</i> <ul style="list-style-type: none"><li>◦ Leading proof of concept research on non-destructive fracture toughness evaluation</li><li>◦ Designing and fabricating prototype machine components</li><li>◦ Developing and maintaining on-site safety program, including Chemical Hygiene Plan</li><li>◦ Drafting and filing text and figures for provisional and non-provisional utility patents</li></ul> <b>Materials and Engineering Group LLC</b> , Cambridge, MA <i>Engineering Consultant</i> <ul style="list-style-type: none"><li>◦ Consulting as expert witness support for litigation cases up to \$1 billion in losses</li><li>◦ Developing and implementing protocols for testing critical evidence and customer samples</li><li>◦ Drafting memos and reports for clients on technical findings and expert opinions</li><li>◦ Organizing and maintaining testing inventory, including evidence, notes, and reports</li></ul> <b>Keurig, Inc.</b> , Burlington, MA <i>Brewer Engineering Co-op</i> <ul style="list-style-type: none"><li>◦ Developed automated testing apparatuses utilizing open-source electronics and programming</li><li>◦ Diagnosed brewer failures and implemented corrective prototype components</li><li>◦ Processed and analyzed data for internal engineering R&amp;D qualification</li><li>◦ Presented test data to engineering and manufacturing teams in US and China</li></ul>	March 2015 – Present  October 2013 – Present  January 2013 – August 2013
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	<b>Technical:</b> SolidWorks, Abaqus CAE/Standard, woodworking, machining <b>Programming:</b> MATLAB, Simulink, Fundamental Arduino, C/C++, VBA <b>Practical:</b> Technical writing, system integration, graphic design, digital photography	
HOBBIES AND INTERESTS	Computer technology, photography, rock climbing, cycling, snowboarding, SCUBA diving	