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## EDUCATION

**Massachusetts Institute of Technology**  
*Candidate for B.S. in Mechanical Engineering*

*Class of 2018*

**Select Coursework:** Design and Manufacturing I & II \*, Dynamics and Control I, Mechanics and Materials I, Thermal-Fluids Engineering I \*, Mechanical Engineering Tools, Numerical Computation, Differential Equations, Japanese III \*

\* Expected completion by December 2016

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## EXPERIENCE

**Draper**  
*Autonomous Vehicle Intern*  
*Summer 2016* Design of autonomous mobility scooter for testing through electronics packaging and chassis design; Delivered chassis, 3D printed and machined mounts using CAD and GD&T; Developed path planning algorithms (RRT, Lattice) for the main car

**MIT Distributed Robotics Lab**  
*Undergraduate Researcher*  
*Fall 2015 – Current* System design and prototyping of an adaptive hydraulic control module for printed robotic systems

**MIT Newman Lab**  
*Undergraduate Researcher*  
*Summer 2015* Developed GUI for a wearable stiffness-imposing physical therapy device and analyzed effects through experimentation and MATLAB graphical analysis

**Robotech Center**  
*Program Instructor*  
*Summer 2015* Taught STEM concepts to elementary school students through assembly and programming of an Arduino self driving toy car

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## LEADERSHIP & ACTIVITIES

**MakeMIT (TechX)**  
*Organizer*  
*Fall 2015 – Current* Coordination of corporate sponsors, tools and materials, and mentors for MIT's hardware and prototyping hackathon hosting 250+ college students

**Phi Kappa Theta - Mass Eta**  
*Chapter Vice President*  
*Previous Treasurer*  
*Spring 2015 – Current* Spearheading chapter activities of summer tenancy, community involvement, conflict resolution, member accountability, and finances of an over \$300,000 per year budget

**FIRST Robotics Team 6112**  
*Team Lead*  
*Fall 2012 – Spring 2014* Led mechanical design, documentation, business relations, and outreach efforts for a competitive robotics team

**Student Government**  
*Student Body President*  
*Fall 2010 – Spring 2014* Coordinated daily classroom activities and oversaw all event planning for over 10 annual events for all students

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## TECHNICAL SKILLS

**Computer Aided Drafting & Manufacturing** | Solidworks, MasterCAM

**Manufacturing** | Lathe, Mill, 3D Printing, Lasercutting

**Programming** | MATLAB, Python, HTML & CSS

**Organizational** | Microsoft Office & Visio