
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

EXPERIENCE

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| Draper
<i>Autonomous Vehicle Intern</i>
Summer 2016 | <ul style="list-style-type: none">❑ Designed and implemented chassis and electronics packaging for a novel autonomous mobility scooter as a scalable test vehicle;❑ Designed for manufacturing and created technical drawings of over a dozen mounts and parts that were professionally machined and 3D printed;❑ Researched path planning algorithms to improve efficiency and safety |
| MIT Distributed Robotics Lab
<i>Undergraduate Researcher</i>
Fall 2015 | <ul style="list-style-type: none">❑ System design and prototyping of an adaptive control module for printed hydraulic systems;❑ Design of motor mount for printed hydraulic hexapod robot |
| MIT Newman Lab
<i>Undergraduate Researcher</i>
Summer 2015 | <ul style="list-style-type: none">❑ Developed GUI to improve capability and usability in experiments for a wearable stiffness-imposing physical therapy device |
| Robotech Center
<i>Program Instructor</i>
Summer 2015 | <ul style="list-style-type: none">❑ Taught STEM concepts to elementary school students through assembly and programming of an Arduino self driving toy car |
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LEADERSHIP & ACTIVITIES

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| Phi Kappa Theta - Mass Eta
<i>Chapter Vice President</i>
Spring 2015 – Current | <ul style="list-style-type: none">❑ Spearheading chapter activities of summer tenancy, community involvement, conflict resolution, member accountability, and finances of an over \$300,000 per year budget |
| MakeMIT (TechX)
<i>Organizer</i>
Fall 2015 – Current | <ul style="list-style-type: none">❑ Coordination of corporate sponsors, tools and materials, and mentors for MIT's hardware and prototyping hackathon hosting 250+ college students |
| MIT Chinese Students Club
<i>Member Outreach Chair</i>
Spring 2016 – Current | <ul style="list-style-type: none">❑ Spearheading efforts to foster a welcoming environment and engage new and returning members |
| FIRST Robotics Team 6112
<i>Team Lead</i>
Fall 2012 – Spring 2014 | <ul style="list-style-type: none">❑ Led mechanical design, engineering notebook documentation, business plan creation, sponsor relations, and outreach efforts for a competitive robotics team;❑ Designed and manufactured end gripper and grappling hook winch system |
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TECHNICAL SKILLS

Computer Aided Drafting & Manufacturing | Solidworks, MasterCAM
Manufacturing | CNC Machining, 3D Printing, Laser Cutting, Conventional Machining
Programming | MATLAB, Python, HTML & CSS
Organizational | Microsoft Office & Visio