## **KEVIN** PALISOC

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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 & II, Mechanics and Materials I & II, Thermal-Fluids I, Measurement and Instrumentation, Mechanical Engineering Tools, Numerical Computation, Differential Equations, Japanese IV

## **EXPERIENCE**

<b>Vecna</b> Robotics Mechanical Intern January 2017	<ul> <li>Design for manufacturing and assembly to reduce costs for an electric vehicle consumer product</li> <li>Developing manufacturing procedures to improve quality and marketability</li> </ul>
Draper Autonomous Vehicle Intern Summer 2016	<ul> <li>Designed and implemented all chassis and electronics packaging for a novel autonomous mobility scooter as a scalable test vehicle;</li> <li>Designed for manufacturing and created technical drawings of over a dozen mounts and parts that were professionally machined and 3D printed;</li> <li>Researched path planning algorithms to improve efficiency and safety</li> </ul>
MIT Distributed Robotics Lab Undergraduate Researcher Fall 2015 MIT Newman Lab	<ul> <li>Designed and prototyped an adaptive control module to improve capability of printed hydraulic systems;</li> <li>Designed motor mount for printed hydraulic hexapod robot</li> <li>Developed GUI with real time plotting, calibration, and active stiffness and damping</li> </ul>
Undergraduate Researcher Summer 2015	adjustment to improve experimental data logging capabilities for a wearable physical therapy device
EADERSHIP & ACTIVITIES	
Phi Kappa Theta - Mass Eta Chapter President Spring 2016 – Current	☐ Spearheading chapter activities of summer tenancy, community involvement, conflict resolution, member accountability, house maintenance, and finances of an over \$300,000 per year budget
<b>MakeMIT (TechX)</b> Organizer Fall 2015 – Spring 2016	☐ Coordination of corporate sponsors, tools and materials, and mentors for MIT's hardware and prototyping hackathon hosting 250+ college students

Spearheading efforts to foster a welcoming environment and engage new and

☐ 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

## **TECHNICAL SKILLS**

MIT Chinese Students Club

FIRST Robotics Team 6112

Member Outreach Chair

Spring 2016 - Current

Fall 2012 - Spring 2014

Computer Aided Drafting & Manufacturing | Solidworks, MasterCAM

Manufacturing | CNC Machining, Injection Molding, 3D Printing, Laser Cutting, Conventional Machining

returning members

Programming | MATLAB, Python, HTML & CSS, Tcl

Team Lead

Organizational | Microsoft Office & Visio