# **KEVIN** PALISOC

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## EDUCATION

**Massachusetts Institute of Technology** *Class of 2018*
*Candidate for B.S. in Mechanical Engineering*

**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

**Vecna**
*Robotics Mechanical Intern*
*January 2017*

- ❏ Design and implementation of a test rig to evaluate a novel hydraulic actuator for use in a DARPA funded robot arm project
- ❏ Repaired and validated performance of lifting capability of a warehouse robot

**Draper**
*Autonomous Vehicle Intern*
*Summer 2016*

- ❏ Designed and implemented all 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**
*Undergraduate Researcher*
*Fall 2015*

- ❏ Designed and prototyped an adaptive control module to improve capability of printed hydraulic systems;
- ❏ Designed motor mount for printed hydraulic hexapod robot

**MIT Newman Lab**
*Undergraduate Researcher*
*Summer 2015*

- ❏ Developed GUI with real time plotting, calibration, and active stiffness and damping adjustment to improve experimental data logging capabilities for a wearable physical therapy device

## LEADERSHIP & 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

**MakeMIT (TechX)**
*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

**MIT Chinese Students Club**
*Member Outreach Chair*
*Spring 2016 – Current*

- ❏ Spearheading efforts to foster a welcoming environment and engage new and returning members

**FIRST Robotics Team 6112**
*Team Lead*
*Fall 2012 – Spring 2014*

- ❏ 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

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

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

**Programming |** MATLAB, Python, HTML & CSS, Tcl, Ladder Logic

**Electronics |** Basic Circuitry

**Organizational |** Microsoft Office & Visio