KEVIN PALISOC

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EDUCATION

Massachusetts Institute of Technology *Class of 2018*

Candidate for Bachelor of Science in Mechanical Engineering (Course 2)

Select Coursework: Design and Manufacturing I & II, Dynamics, Mechanics and Materials I & II, Thermal-Fluids I, Measurement and Instrumentation, Applied Electronics, Mechanical Engineering Tools, Numerical Computation, Differential Equations, Japanese IV

EXPERIENCE

Vecna
Robotics Mechanical Intern
January 2017

- ❏ Proved concept and validated cycle lifespan through full implementation of a test rig for a novel hydraulic actuator for use in a DARPA funded robot arm project
- ❏ Repaired and validated performance through cycle testing of a lifting robot

Draper
Autonomous Vehicle Intern
Summer 2016

- ❏ Designed and implemented all chassis structure and assembly 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 Newman Lab
Undergraduate Researcher
Summer 2015

- ❏ Developed and improved experimental functionality of real time plotting, calibration, and active stiffness and damping adjustment in a single GUI for a wearable physical therapy device

Robotech Center
Program Instructor
Summer 2015

- ❏ Taught STEM concepts to elementary school students through assembly and programming of an Arduino self driving toy car

LEADERSHIP & ACTIVITIES

Phi Kappa Theta - Mass Eta
Chapter President
(Ex- VP, Treasurer)
Spring 2015 – Current

- ❏ Spearheading chapter management of an independent organization, including defining the vision and goals, working with administrators as well as executive board teammates, summer tenancy, 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 – Spring 2017

- ❏ 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 | Breadboarding, Soldering, Measurement

Organizational | Microsoft Office & Visio, Asana, Confluence