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 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

- ❏ Designed and implemented 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