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: Product Engineering*, Design and Manufacturing I & II, Robotics*, Engineering Leadership Lab*, Dynamics, Mechanics and Materials, Thermal-Fluids, Measurement and Instrumentation, Applied Electronics, Mechanical Engineering Tools, Numerical Computation, Differential Equations, Japanese IV

** Enrolled Fall 2017*

EXPERIENCE

Aperia Technologies
Product Management Intern
Summer 2017

- ❏ Developed all pneumatic, electrical, and mechanical systems of a mobile testing and prototyping workbench, designed for optimization of cost and functionality through detailed material, dimensional, and component selections;
- ❏ Gathered requirements and systematic prioritized product features for the second generation automatic tire inflator system at a rapidly growing startup;

Vecna
Robotics Mechanical Intern
January 2017

- ❏ Proved concept and validated cycle lifespan through full implementation of a test rig for a novel hydraulic actuator 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

LEADERSHIP & ACTIVITIES

MIT Phi Kappa Theta
Chapter President
(Ex- VP, Treasurer)

- ❏ Spearheading chapter growth and management of an independent organization, including defining the vision and goals, driving progress as chief of staff, leading team-building and inspiring members, meeting facilitation, conflict resolution, house maintenance, and finances of an over $300,000 per year budget

MIT Gordon Engineering Leadership (GEL) Program

- ❏ One of the top third applicants of 350+ MIT students accepted for professional coursework in engineering industry leadership theory learned through team simulations

MakeMIT (TechX)
Organizer

- ❏ Coordinated corporate sponsors, tools and materials, and mentors for MIT's premiere hardware and prototyping hackathon hosting 250+ college students

MIT Chinese Students Club
Member Outreach Chair

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

FIRST Robotics Team 6112
Team Lead

- ❏ Achieved first place in state and led engineering design, documentation, business plan creation, and outreach efforts for a competitive robotics team;

TECHNICAL SKILLS

Computer Aided Drafting & Manufacturing | Solidworks, MasterCAM

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

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

Electronics | Integration, Breadboarding, Measurement, Arduino

Organizational | Microsoft Office, Salesforce