KEVIN PALISOC

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, Robotics, Engineering Leadership, Mechanics, Dynamics, Thermal-Fluids, Measurement and Instrumentation, Applied Electronics, Numerical Computation, Japanese 4

PROJECTS

Coordinate	Delivered alpha prototype of 10 total devices (3 unique designs) within 6 weeks, after 3 rapid iterations of
(Search and Rescue)	mechanical enclosures, as a leading designer in a team of 18 students;
Product Design	☐ Drove electronics integration: delivered novel surface rechargeable battery pack and compartment that accepts
	both AAs or this pack, designed tablet mounting and button interfaces;
	Owned waterproofing design, IP67 pending, through custom gaskets and liquid adhesives;
	Created toolpaths for CNC milling using HSMWorks and supported rubber molding processes;
	☐ Presented on behalf of the team at the class product launch to over 250,000 unique viewers and 1100 live
Assistive Robot Arm Mechanical Design	 Delivered serial elastic actuated robot to safely help hemiplegic patients with household tasks Owned design of arm linkage subsystem: lightweight structure, low friction joints, and belt power transmission

INDUSTRY EXPERIENCE

Aperia Technologies	Owned pneumatic, electrical, and mechanical systems design of a mobile testing and prototyping bench
Product Management Intern	with an uninterruptible 1 hour battery life and air storage;
Summer 2017	Integrated pressure regulators, pneumatic sensors, UPS and battery, AC to DC power, drawers;
	Supported PRD creation for the second gen automatic tire inflator system at a rapidly growing startup;
Vecna	Proved concept and validated failure mode cycle lifespan of a novel hydraulic actuator through
Robotics Mechanical Intern	implementation of a test rig for a DARPA funded robot arm project;
January 2017	Repaired and validated performance through failure mode cycle testing of a lifting robot
Draper	Owned chassis structure design and assembly for a novel autonomous mobility scooter;
Autonomous Vehicle Intern	Designed for manufacturing and created technical drawings of over a dozen mounts and parts;
Summer 2016	Researched path planning algorithms to improve efficiency and safety

LEADERSHIP & ACTIVITIES

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

MIT (GEL) Program

MakeMIT (TechX) Organizer

Coordinated MIT's premiere hardware and prototyping hackathon hosting 250+ college students

Achieved first in state and led engineering and business efforts for a competitive robotics team;

TECHNICAL SKILLS

CAD & CAM | Solidworks, HSMWorks, MasterCAM, Tooling Design, Rendering

Manufacturing | CNC & Conventional Machining, Injection Molding, Rubber Molding, 3D Printing

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

Electronics | Rapid Prototyping, Signal Processing and Measurement, Arduino

Other | Japanese, Microsoft Office, Salesforce