KEVIN PALISOC

PORTFOLIO:

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EDUCATION

Massachusetts Institute of Technology

Class of 2018

Candidate for B.S. in Mechanical Engineering with Conc. in Product Development (Course 2-A)

Select Coursework: Product Engineering, Design and Manufacturing, Robotics, Engineering Leadership, Statics and Materials, Dynamics, Thermal-Fluids, Measurement and Instrumentation, Applied Electronics, Numerical Computation, Japanese 4

of 10 total devices (3 unique devices) from idea to build within 6 weeks, ober enclosures, as a leading designer in a product team of 18 students; battery packs and compartments for AAs, 18650s, surface charging, designed button and screen interfaces, PCB and antenna assembly; ding), through custom gaskets and liquid adhesives; baths for CNC milling in HSMWorks and rubber molding processes; launch to over 250,000 unique viewers and 1100 live to safely help hemiplegic patients with household tasks; in structure, thrust and ball bearing joints, and belt power transmission product, business (funding), and process aspects to develop swimming mmer communication and provides fitness analytics; 268 (pending) audio and fitness head-wearable and poolside devices
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echanical systems design of a mobile testing and prototyping bench with (300 Wh) and air storage (10 gal.); sensors (0-200 psi), UPS and battery, 110V AC to DC power, drawers; gen automatic tire inflator system at a rapidly growing startup;
ovel entirely rubber 3 DOF fluidic robot arm as a safe manipulator; n, lost-wax casting, working with prototyping vendors; nd providing design and manufacturing mentorship
mode cycle lifespan of a novel hydraulic actuator (1,200 psi) through RPA funded robot arm project; through failure mode cycle testing of a lifting robot
nics mounting design for a novel autonomous mobility scooter; ated technical drawings of 15+ mounts and parts; s (RRT, A*, POMDP, Dijkstra) to investigate efficiency and safety
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MIT Phi Kappa Theta Spearheaded growth: increased brother residency from 83% to 94%; drove \$70,000 in renovations in 1 year President (Ex- VP, Treasurer) and gathered funding (75% grants); increased summer tenancy income by 22% (\$11,000) in 1 year MakeMIT (TechX) Organizer Coordinated hardware hackathon; individually secured \$12,000 worth of corporate funding and materials FIRST Robotics 6112 Team Lead Achieved first place in state and led engineering and business efforts for a competitive robotics team;

TECHNICAL SKILLS

CAD & CAM | Solidworks w/ Simulation (FEA), HSMWorks, MasterCAM, Tooling Design, Rendering

Manufacturing | CNC Machining, Lathe, Mill, Injection Molding, 3D Printing, Rubber Molding, Investment Casting

Programming & Electronics | MATLAB, HTML & CSS, Arduino & Rapid Prototyping, Oscilloscope