H E N R Y   P E C K

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| WORK  ───────────────────────────────────────────────────  **Intuitive Surgical  ●  Robotics Manufacturing Engineering Co-op**  Sunnyvale, CA / June 2018 - Present  Streamlined manufacturing process development for telerobotic surgical devices  Designed user-centric test fixtures to improve line ergonomics and productivity  Upheld instrument intent and compliance through design revisions and iterations  **MEDX Xelerator ●  Product Strategy Intern**  Or Yehuda, Israel (Remote) / Jan 2018 - May 2018  Analyzed market position and competitive landscape for seed-stage medical devices  Drove R&D initiatives across growing portfolio of healthcare technology companies  Collaborated with accelerator CTO and business executives on new investments  **Ekso Bionics - Medical  ●  Mechanical Engineering Intern - Human Factors**  Richmond, CA / July 2017 - August 2017  Redesigned leg and thigh bracing interfaces on full-body exosuit used in gait rehab  Evaluated clinician UX and analyzed field data to validate product specifications  Bolstered product marketing efforts with interactive 3D models and web content  RESEARCH  ───────────────────────────────────────────────────  **HCI Institute - Carnegie Mellon  ●  Interactive Prosthesis Training in VR**  Pittsburgh, PA / Jan 2017 - May 2018  Directed design and prototyping of VR experiences for upper limb robotic prosthesis  Employed UX research methods to align products with amputees’ needs  Established clinical testing and evaluation strategy with healthcare industry partners  **Biomechatronics Lab - Carnegie Mellon  ● Exoskeleton Assistance Optimization**  Pittsburgh, PA / June 2016 – Sept 2016  Increased comfort of leg exoskeletons used for human performance augmentation  Authored experimental protocols for user testing, training, and evaluation  PROJECTS  ───────────────────────────────────────────────────  **Pittsburgh Penguins and Covestro “RETHINK the RINK” Hockey Hack-a-Thon**  March 2018  Developed an app to register and analyze player collisions along hockey boards  Integrated electronics with production level materials and manufacturing processes  **Rothberg Catalyzer Hack-a-Thon for Global Medical Relief**  Feb 2018  Designed and fabricated a low-cost wearable to remind relief workers to stay hydrated  Created a business strategy for rollout and mass production of the device | EDUCATION  ────────────────────  **Carnegie Mellon University**  Expected Dec 2019  M.S. Biomedical Engineering  **Carnegie Mellon University**  Expected May 2019  B.S. Mechanical Engineering  Minor in Physical Computing  Minor in English & Rhetoric  LEADERSHIP  ────────────────────  **Camp Kesem**  Jan 2017 - Present  Fundraising lead and volunteer for Kesem, which provides a free camp experience to children with families affected by cancer  **Teaching Assistant**  Sept 2016 - May 2018  Supported professors and taught for Computer Aided Design and Engineering Physics I courses  **Admissions Representative**  Jan 2017 – May 2018  Tour Guide for Carnegie Mellon and the Engineering College  SKILLS  ────────────────────  **Engineering Tools**  SolidWorks, Rhino, Python, MATLAB, Arduino, 3D Printing, Laser Fab, Machine Shop  **Design Methods**  Rapid Prototyping, Persona, Storyboarding, Contextual Inquiry  **Additional**  Trivia, Teaching/Coaching, Writing |