HENRY PECK

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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