RYAN STINEBAUGH

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EDUCATION

Carnegie Mellon University, *Pittsburgh, PA*
Master of Integrated Innovation for Products & Services Advanced Study, December 2019
GPA: 3.89/4.0

Carnegie Mellon University, *Pittsburgh, PA*
Bachelor of Science in Mechanical Engineering, May 2018
Minors: The Mechanical Behavior of Materials, Innovation and Entrepreneurship
Varsity Soccer, Fall 2014 – Fall 2018
GPA: 3.23/4.0

RELEVANT EXPERIENCE

Beta Keys, Kickstarter Campaign | *Pittsburgh, PA*
Co-Founder, April 2019 – July 2019

- Designed a modular mechanical gaming keyboard to lower the barrier to entry for professional teams and gaming influencers to sell branded hardware.
- Prototyped multiple design iterations that would use manufacturing techniques such as injection molding, sheet metal stamping, and ultrasonic plastic welding
- Managed the relationship with an overseas manufacturer

Smart Hammer Innovation, Engineering Consulting | *Pittsburgh, PA*
Product Development Consultant, October 2018 – April 2019

- Consulted to Phillips Respironics for two eight-week terms that explored innovative technologies and markets for sleep and respiratory care
- Conducted customer research, created personas, and developed low-fidelity prototypes

Pittsburgh Knights, Professional Esports Franchise | *Pittsburgh, PA*
Project Lead, June 2018 - April 2019

- Assisted in securing investments from the Pittsburgh Steelers and Wiz Khalifa
- Led a team to add a new source of revenue for the company
- Introduced changes to the website to optimize user flow

Ingenero, Provider of high-end process engineering services | *Houston, TX*
Process Safety Engineer Intern, Summer 2016

- Collected and reported field data on pressure relief valves at LyondellBasell Polymers Plant
- Learned to read P&ID's and isometric drawings to work independently on the plant
- Sorted through collected data to create infographics for client presentation

PROJECTS

Wireless Piezoelectric Mechanical Keyboard (CMU), *Fall 2018*

- Won most innovative design at CMU's Mechanical Engineering Spring 2018 Design Expo
- Designed a keyboard that harnessed energy from keypresses to increase battery life
- Used FDM and SLS 3D printing to prototype and iterate towards a final design
- Derived and selected the optimal materials for the final product concept through a translation and screening process

Toaster Redesign (CMU), *Fall 2018*

- Disassembled a Proctor Silex Toaster and recorded each part's function and assembly step
- Designed a concept toaster that uses 39 fewer parts and 17 fewer assembly steps

RELEVANT COURSES

Design I & II for Engineers	Material Selection	Pricing Strategy
Mechanical Behavior of Materials	Design for IOT	Structure of Materials
Integrated Product Development	Heat Transfer	User Research Methods

SKILLS

Coding: MATLAB, JavaScript, HTML, CSS, Meteor, NodeJs, React, MongoDB
Software: SolidWorks, Autodesk Inventor, Adobe Photoshop
Prototyping: Mill, Lathes, Drill Press, Band Saw, Laser Cutter, 3D Printer