Ryan Stinebaugh

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SUMMARY

I'm a mechanical engineer with a master's degree in product development who specializes in product design and innovation. Whether the project is physical or digital, I love working in interdisciplinary teams to create products driven by consumer input.

EXPERIENCE

Co-Founder
Beta Keys **April 2019 - July 2019, Pittsburgh, PA**

- 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

Product Development Consultant
Smart Hammer Innovation **October 2018 - April 2019, Pittsburgh, PA**

- 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

Project Lead
Pittsburgh Knights **June 2018 - April 2019, Pittsburgh, PA**

- 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

Process Safety Engineering Intern
Ingenero **June 2016 - July 2016, Houston, TX**

- 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
- Won most innovative design at CMU's Mechanical Engineering Spring 2018 Design Expo
- Designed a keyboard that harnessed energy from key presses 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
- 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

EDUCATION

Master of Integrated Innovation for Products and Services
Carnegie Mellon University • Pittsburgh, PA • 2019 • 3.89 GPA

Bachelors of Science in Mechanical Engineering
Minor in the Mechanical Behavior of Materials • Minor in Innovation & Entrepreneurship • Carnegie Mellon University • Pittsburgh, PA • 2018 • 3.23 GPA

SKILLS

Software: SolidWorks, Autodesk Inventor, Adobe Photoshop

Prototyping: 3D Printing, Laser Cutting, CNC Mill, Lathes, Drill Press, Band Saw

Coding: MATLAB, HTML, Javascript, CSS, NodeJs, MongoDB, React, Meteor