Steven J. Dourmashkin

A mechanical engineer, product developer, and leader who thrives working on challenging problems and new technology in the fields of consumer electronics, education, and robotics.

Boulder, CO
(516) 640-8496
steven@dourmashkin.com

EXPERIENCE

Sphero — *Product Manager*

JUN 2018 - NOV 2019

- Led research and product development of Specdrums Rings, Specdrums MIX and Edu apps, Specdrums Edu STEAM kit, and derivative educational robot.
- Worked with Asia contract manufacturer to validate new hardware and launch mass production of over 180k rings and counting.
- Achieved global distribution with retailers including Apple, Target, Amazon, and JB Hi-Fi in over 20 countries and 4,000 stores worldwide.

Specdrums — *Founder & CEO*

SEP 2015 - JUN 2018

- Acquired by Sphero in June 2018.
- Invented and filed patent for BLE-connected musical rings.
- Developed firmware, electrical schematics, PCB layout, mechanical design, packaging, iOS app, and QA test plans in preparation for mass production.
- Launched $188k Kickstarter campaign.
- Worked closely with US contract manufacturer to fulfill over 10k units.

NASA Jet Propulsion Lab — *G&C Systems Engineering Intern*

JUN 2015 - AUG 2015

- Designed 6U spherical air bearing testbed and mass properties simulator for the Small Satellite Dynamics Testbed (SSDT).
- Performed dynamics analysis for Jovian magnetic field and inflatable antenna cubesat projects.

ASML — *Mechatronics Intern*

JUN 2014 - AUG 2014

- Analyzed dynamics of reticle positioning to help improve subnanometer precision of world's most prominent lithography system.

EDUCATION

Cornell University — *M.Eng. Mechanical Engineering*

JAN 2015 - DEC 2015

GPA: 3.96 · Dynamics, Systems, & Controls Focus · Flux Pinning Research Group · eLab Startup Incubator · REV Ithaca Hardware Accelerator · Physics III: Waves and Optics Lab Instructor

Cornell University — *B.S. Mechanical Engineering*

AUG 2011 - MAY 2015

GPA: 3.98 · Lunar CubeSat Project · Cornell Rocketry Team · CUSat Satellite Team · MATLAB Academic Excellence Workshop Instructor · Fluid Dynamics TA

SKILLS

Hardware: SolidWorks, Creo Parametric, Eagle

Firmware: PSoC Creator, SEGGER Embedded Studio, Espressif, C, C++, Arduino

Software: Objective C, Swift, MATLAB, Python, JavaScript, HTML, Java, ROS

Other: Productboard, Aha!, Jira, Google Firebase, Git, Adobe Illustrator

AWARDS

Best of CES 2019
From WIRED, Parents Magazine, and Gearbrain

NVC 2018 Championship
CU Boulder's New Venture Challenge 1st place for $75k

Protolabs Cool Idea!
Award earning $25k towards injection molding

Edison Best New Product 2018
Edison Award (Silver) under Music Instruction

Red Bull Launchpad 2017
Startup competition winner and sponsorship at TechCrunch Disrupt SF

Best of Kickstarter
Prize given out by Kickstarter at CES 2019 for Specdrums

PATENT

Optical Electronic Musical Instrument (US9520117B2)