

SAM ETTINGER, M.S.
Los Angeles, CA | 626.429.4045
EttingerSam@gmail.com | www.linkedin.com/in/sam-ettinger

MECHATRONIC ENGINEER

Skilled in creatively combining mechanical and electronic systems. Experienced both leading and working on teams dedicated to various mechatronic product development, engineering, and production initiatives. Acts as liaison between brand managers and technical developers. Adept at managing varied projects at once.

Electronic Design and Development	Control System Design	Product Development
Electromechanical Construction	Testing, Research and Analysis	Digital/Physical Prototyping

SPIN MASTER STUDIOS, Los Angeles CA

November 2016 – Present

Electronic Engineer

A cross-disciplinary subject matter expert and liaison between brand managers, hardware, firmware, software developers, and producers. Design and develop connected toys and apps across global portfolio. Lead system analysis, design, testing, debugging, and documentation activities.

- Researched new technologies and created cost-effective applications replacing existing ones.
- Successfully developed software controls for complex, high-tech toys with embedded systems.

ROBOT SAPIENCE LTD., Hong Kong

December 2015 – August 2016

Associate Developer

- Designed and taught robotics courses for primary- and secondary-level students at comprehensive schools across Hong Kong and Kowloon.
- Used programmable robots of my own design to teach geometry, electronics, and other STEM subjects.
- Demonstrated with school administrators and teachers to influence education policies.

HARVEY MUDD COLLEGE, Claremont CA

Summer 2011

Clinic Developer

- Wrote tutorials to help students learn technical hardware and CAD/FEM software.
- Created valuable lessons in 3D printing, PCB design, SolidWorks Analysis, and electronic testing procedures.

HARVEY MUDD COLLEGE, Claremont CA

Fall 2010, Fall 2011 – Spring 2012

Clinic Member

- Developed a novel liquid nitrogen flash freezer for producing ice pops.
- Flash freezer was entirely conceived, prototyped, and tested by seven-student team.
- Co-authored U.S. Patent #20130333404, "Safe and compact machine for rapidly producing frozen confections," published December 2013.
- Redesigned commercial electronic circuits for improved reliability on behalf of Fortune 500 client.
- Drew from circuit analysis, materials science, and reliability engineering.
- End-of-year presentation earned "Best Clinic Presentation" award.

EDUCATION

Master of Science (MS), Electrical and Computer Engineering
Georgia Institute of Technology, Atlanta, GA

Bachelor of Science (BS), Engineering
Harvey Mudd College, Claremont, CA