## Victoria Moran

vmoran@hmc.edu | (858)204-0327 | 11947 Dapple Way, San Diego, CA 92128

- EDUCATION Harvey Mudd College - Claremont, CA Expected May 2020 Bachelor of Science in Engineering GPA: 3.76/4.00 Dean's List (all semesters) Major GPA: 3.79/4.00 Electrical Engineering Coursework – Microprocessor Systems | Digital Electronics and Computer Engineering | Electronic and Magnetic Devices and Circuits | Experimental Engineering Other Related Coursework - Advanced Systems Engineering | Intro to Engineering Design and Manufacturing | Data Structures and Program Development | Electromagnetic Theory and Optics | Multivariable Calculus - SKILLS -Digital Systems Circuit Design | Microprocessor Design | C | SystemVerilog | Assembly Language | HSPICE Programming Matlab | C++ | Java | Python | Arduino | Verilog-A | Linux | Git English (Fluent) | Mandarin (Intermediate) | Spanish (Beginner) Languages CAD (SolidWorks) | Machining | Modeling | Rapid Prototyping | Innovation (Patent Pending) Other Technical Writing | New Product Development — INDUSTRY EXPERIENCE -**HP Inc.** | R&D Systems Engineer Intern HP San Diego | May - August 2018 • Simplified the workflow of textile printing and reduced the time of post printing treatment from 3 minutes to < 1 second Demonstrated the feasibility of curing various inks on textiles with LED to optimize color intensity and durability Collaborated with an international team to meet product development timelines and protect intellectual property Energize Colleges | Sustainability Intern City of Rancho Cucamonga | January 2018 - May 2018 • Analyzed emissions data to create a baseline greenhouse gas inventory for Rancho Cucamonga Municipal Operations RESEARCH EXPERIENCE Analog Circuit Engineering Lab | Undergraduate Researcher HMC | January 2018 - present • Develop a TFET variability model in Verilog-A to simulate a TFET SRAM cell for low-power high-density applications • Simulate phase change memory arrays to determine how selector diode quantity limits array size Internet Security Lab | Undergraduate Researcher University of Nebraska-Lincoln | June - August 2017 • Established a secure channel between communicating entities on the Interplanetary Overlay Network • Developed a non-interactive public key exchange protocol to solve the problem of key management and distribution **PROJECTS** Toyota Motor Fuel Cell Clinic HMC | Fall 2018 Evaluate power consumption interactions between fuel cell stack and battery of passenger car Mirai • Create model that recommends optimal power configuration for chosen mid-sized North American vehicles **Autonomous Underwater Vehicle** • Worked with three classmates to build an underwater robot for the lab component of Experimental Engineering • Robot navigates underwater using acoustic control to follow a beacon and measure the water's temperature and turbidity Vehicular Child Safety Device • Collaborated with two peers to develop a notification system that communicates with sensors in a car seat and a driver's seat to alert parents who unintentionally forget their children in their cars - ACTIVITIES -**Digital Electronics Lab Proctor** – Assist students with labs to ensure concept understanding HMC | August 2018 - present Machine Shop Proctor – Supervise and guide students with machine use HMC | January 2018 - present

Homework Hotline Tutor – Help students with math and science by phone *HMC* | October 2016 – present

HMC | August 2017 - present

CMS Athletics | August 2017 - present

HMC Division of Student Affairs | August 2017 – present

Wellness Peer – Organize events to promote seven dimensions of wellness

**Dorm Mentor** – Serve as peer advisor for first-year students

**Turbo Kickboxing Instructor** – Teach biweekly classes at Claremont Colleges