Victoria Moran

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		— EDUCATION —		
Harvey Mudd College – Claremont, CA Bachelor of Science in Engineering Tau Beta Pi, Dean's List (all semesters)		GPA: 3.81/4.00 Major GPA: 3.89/4.00	Expected May 2020	
_	_	nics Electronic and Magnetic Devices and Circuits Computer Engineering Experimental Engineering	Control Systems	
		gineering Intro to Engineering Design and Manufactromagnetic Theory and Optics Multivariable Calcul	0 1	
		SKILLS —		
EE	Circuit Design PCB Layout (Altium) and Verification Embedded Systems FPGA Raspberry Pi			
Programming Matlab C++ C SystemVerilog		og Java Python Linux Git R Arduino Ve	va Python Linux Git R Arduino Verilog-A HSPICE	
Languages	English Mandarin (Intermediate) Spanish (Beginner)			
Other CAD (SolidWorks) Machining Modeling Rapid Prototyping Innovation (patent patents) Microsoft Office Technical Writing New Product Development Lab Equipment		pending)		
	IN	DUSTRY EXPERIENCE ————		
PerformeDesignedInvestiga	d a breakout board for internal debu	rments board to ensure functionality and signal integring through schematic capture and PCB layout of demonstrated in using a new connector and modified schematics accordingly.	lebug interfaces	
 Develop 	ed a new technology to reduce the t	ime of curing various inks on textiles from 3 minutes neet product development timelines and protect intelle	to <1 second	
	eges Sustainability Intern l emissions data to create a baseline	City of Rancho Cucamonga] greenhouse gas inventory for Rancho Cucamonga Mu		
	RE	SEARCH EXPERIENCE ————		
_	t Engineering Lab Undergradual and simulate phase change memory as	te Researcher HMC rrays to determine how selector diode quantity limits a	January 2018 - present array size	
	rity Lab Undergraduate Researche ed a public key exchange protocol to	er <i>University of Nebraska-Line</i> o manage and distribute keys on the Interplanetary Ov		
		— PROJECTS —		
•	Fuel Cell Clinic ed power configuration of fuel cell s	stack and battery for chosen mid-sized North America	HMC Fall 2018 in vehicles	
MIDI Pattern	Visualizer	on a second of a story was adod from a MIDI bank one	HMC Fall 2018	

- Implemented a system that plays and displays a sequence of notes recorded from a MIDI keyboard
- Raspberry Pi sends notes over SPI to FPGA which stores the pattern in shift registers and interfaces to an LED matrix

Autonomous Underwater Vehicle

HMC | Spring 2018

Built a robot that navigates underwater using acoustic control to follow a beacon and measure properties of the water

Vehicular Child Safety Device

HMC | Fall 2017

Developed a notification system using sensors in a car seat and a driver's seat to alert parents who leave children in cars

ACTIVITIES

Digital Electronics Lab Proctor - Assist students with labs to ensure concept understanding

HMC | Aug 2018 - present

Machine Shop Proctor - Supervise and guide students with machine use

HMC | Jan 2018 - present

Wellness Peer - Organize events to promote seven dimensions of wellness

HMC | Aug 2017 - present

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

HMC Division of Student Affairs | Aug 2017 - Dec 2018