Lauren Hu

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340 East Foothill Blvd. Sox #313 | Claremont, CA 91711

EDUCATION

Harvey Mudd College (HMC)

Bachelor of Science, Engineering

December 2018

Courses: Radio Frequency Circuit Design (E190AK) | Intro to Analog Design fring El onics & Lab (E151) Engineering Clinic (E111-3) | Microprocessor-based Systems (E155) | Exprime from Engr. (E80) | Advanced Signals & Systems Engr. (E101-2) | Digital Electronics & Comp | Engr. (E85) | Engr. (E86) | Electronic Circuits/Devices (E84) | Continuum Mechanics (E83) | Photosphy (A33) | Autosphy (A33) | Autosphy (E111)

Honors: Harvey Mudd For Inspiration & Recognition of Science & Ter Slope ST) Scholarship (4 years)

SKILLS

Languages & Software: Proficient in Matlab | System Verilog | / design | Altium | PADS | KiCad | LTspice

Familiar with Python | Arduino | C | Lin HTML | SolidWorks | ModelSim

Tools & Equipment: Lathe | CNC Mill | DSLR | Soldering pe | for trum Analyzer | VNA

PROJECTS

Wireless pH Sensor Network - George Fischer Signet Clinic

HMC | Fall 2017 - Present

- Designing a mixed signal embedded system for trial pH sense etworks in a team of 5
- Prototyped wireless power transfer and communication
 a low ver pH and temperature sensor device
- Board level hardware design, firmware development, sign
 oning, project management

Ukucorn - MicroPs Final Project (E155)

HMC | Fall 2017

- Designed and built a ukulele teacher with hord recognition and interactive fretboard LEDs in a team of 2
- LEDs embedded in the fretboard display arget chord, / changing after the correct chord is played
- SPI, frequency analysis, piezo sensor, an filtering, / b, FPGA, Raspberry Pi 3, ukulele

Aerocube Payload - The Aerospace pration

HMC | Spring 2017

- Worked on a picosatellite paylor joining a team of 4 for the second half of the project
- Supported debugging, testing, a delimination of the NVIDIA Jetson TX1 (1 TeraFLOP in low arth orbit

leep Dep Buddy - Mudd Hac

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HMC | Fall 2016

2nd place finish by a tex (14) yed, the LAT

2110 place illiish by a ter place illie LA Tilles

Made an animated blover a 17 (28) In react to environmental changes

Arduino, Pixei display, hototra listor, LEDS, laser-cut sne

Pterodactyl Rocket

40)

HMC | Spring 2010

Modified an Aer rocke data collection in a team o

Designed and Pulated a Procedure altitude, pressure, temperature, rotation, light, and humidity data

bloke the sou valuer - com eu by sound and data

HMC | Fall 2016

WORK EXPERIENCE

Spacecraft Electrical Engineen Millennium Space Systems Los AngelesLAufn20197

Supported development of satellite electrical systems

Schematic design and layout for digital and analog circuits, component selection & evaluation, verification testing

E85 Grader - Engineering Department

HMC | Spring 2018

Graded weekly problem sets for students in Digital Electronics & Computer Engineering

Machine Shop Proctor - Engineering Department

HMC | Spring 2016 - Present

Taught and supervised students in the machine shop

CS Summer Staff - Computer Science Department

HMC | Summer 201

Worked with Gentoo Linux as a system administrator

Founder - Relativistic Rhino Jewelry Shop

Honolulu & HMC | 2007 - 2017

Designed, crafted, and sold jewelry at craft fairs and online - www.etsy.com/shop/relativisticrhinos