

Andrea Lopez

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WORK EXPERIENCE

Intel Corporation – Graduate Software Engineer Intern

July 2017 – Sept 2017

- Investigated and selected best method for displaying manufacturing flow charts on internal websites to be adopted by 60 users
- Developed a proof of concept software tool that checked if servers, databases, APIs, inter-process communication framework tools, websites, and windows applications were fully functional after a monthly system patch, and reboot
- Researched methods for inserting data tables with dynamic attributes into databases
- **Technologies used:** Wiki Enterprise, HTML, Visual Studio, C#, .NET Framework, SQL Server Integration Services, SQL Server Management Services

Insomniac Inc. – Guest Services Assistant Manager, Ticketing Assistant Manager

June 2014 – Dec 2017

- Supervised teams, sizes ranging from 3-10, in ticket sales and ticket resolution
- Managed Lost & Found team of size 15 through 24-hour operations

Cal Poly Pomona: Computer Science Department – Student Researcher

June 2015 – Aug 2015

- Created a smart pet door prototype that was a cost-effective substitution to existing pet doors, with mobile and intelligent capabilities

Technologies used: Raspberry Pi 2, Arduino, Bluetooth beacon, linear servo motor

Citrus College: Mathematics & Physics Department – SIGMA Mentor/Tutor

Aug 2014 – June 2015

- Strengthened student commitment to completing coursework by supporting them with STEM tutoring, as well as encouraging their participation in STEM-related activities
- Counseled students on their personal experiences and shared knowledge that aided their personal development

PROJECTS

BdayPal App – iOS Engineer

May 2019 – Present

- Designed, developed, tested, marketed, and launched a birthday app on the Apple AppStore
- App Store Listing: biy.ly/BdayPalOnAppStore
- Web Page: bit.ly/BdayPalApp

Technologies used: XCode, Swift, Sketch, AppStore Connect

UC Davis Digit Image Recognition Team – Student Verilog Engineer

Jan 2017 – June 2017

- Designed a custom FPGA accelerator component that performed digit image recognition on sets of 500 images
- Improved the speed of pre-trained neural network by 40% through data compression, storage component selection, preloading data, and neural network optimization while maintaining 90% accuracy

Technologies used: DE1-SOC Altera FPGA, Quartus II, MATLAB, C, Verilog

UC Davis EEEmerge Team – Student Design Engineer

Sept 2015 – June 2016

- Constructed, wired, and programmed a 2 ft. x 2 ft. infinity mirror, which was activated by hand proximity sensors to provide an interactive exhibit

Technologies used: TI micro-controller, Code Composer Studio, C/C++

Citrus College Cosmic Research Team – Student Researcher

June 2014 – June 2015

- Improved balloon tracking accuracy by more than 50% with a high-powered GPS unit
- Conducted 4 high altitude balloon test launches that carried scientific payloads which collected temperature, altitude, & sound data to examine the earth's atmosphere conditions

Technologies used: Arduino, Altimeter, Geiger counter, Recorder

VOLUNTEER

hackforla.org **HFLA Core Team – Organization Strategy and Events**

May 2018 – Present

playatech.io **Playa Tech Board – Events**

June 2018 – Present

EDUCATION

Bachelor of Science in Computer Engineering, Emphasis in Digital Systems

December 2017

University of California, Davis

GPA: 3.48