Alina Suon

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Education

California State University, Long Beach   Long Beach, CA
Major: **Computer Engineering**   *Graduation Date: May 2020*

Technical Skills

Programming: Python, C++, Java, Verilog, VHDL, MATLAB, Assembly (Arm, 8051)

Tools: <u>Development Tools, IDEs and EDA Tools</u> – Xilinx ISE Design Suite, Keil µVision, Vivado, Altium, Solidworks, Microsoft VisualStudio, Anaconda, LTSpice, Dev C++, Eclipse

<u>Other Skills and Emphasis</u> – Embedded Systems, Microcontroller, FPGA Development, Verilog / VHDL Behavioral & Structural Modeling, PCB Design, Schematic Entry and Physical Layout, SMD and Traditional Soldering, Digital Circuitry

Project Experience

PickIt – Autonomous Picker Upper   *January – November 2019*
Project Member

- Upgraded automated driving system with Bluetooth network based remote control for immersive experience
- Designed and developed experiment to test complex theories and scenarios for improved performance
- Researched artificial intelligence for machine vision training to detect conditions and maneuver duly
- Cooperated in the design, test, and troubleshoot of the DC and servo motor, battery, and AI system

Smart Bartender   *October 2018*
Project Member

- Developed an application in Python using embedded system to process and run drink management network
- Collected data using DC peristaltic pump to maintain constant flow rate of liquid accurately and consistently
- Wrote blueprints for the electrical wiring unit to assist in the constructing and soldering of the circuit
- Coordinated with team a project development plan that helped reduce total expenditures by 21 percent

PONG Game Simulation   *September 2018*
Project Lead

- Recreated 70's game using FPGA board pins to create VGA video signal that generate and output video image
- Worked with Verilog and VHDL using Xilinx ISE to create object display animation driving graphics to monitor
- Improved efficiency of pixel generation circuit by dividing into three schemes working to generate full screen
- Performed FPGA design verification test using the produced response to verify functional correctness of HDL

Autonomous Line Following Vehicle   *April 2018*
Project Member

- Prototyped a robot entirely of analog components using sensor logic algorithm to efficiently navigate course
- Drafted three circuit schematics and waveforms using LTSpice to simulate analog circuit proper capability
- Methodically troubleshot circuit design using oscilloscope to define modes of failures on the component level
- Produced an original PCB schematic using Altium Circuit Maker to minimize error and maximize performance

Work Experience

Victor Real Estate – Long Beach, CA   *May 2021*
Real Estate Assistance / Listing Coordinator

- Coordinated broker and public open houses and obtain feedback to provide discussion points for adjustment
- Consulted with sellers marketing activities to share and promote property and bring in qualified buyers
- Prepare documentation and input information into client database and transaction management system
- Conduct comparative market analysis to determine an estimated value of real estate when listing property