**Zhenchen Zhang** 330 De Neve Dr.

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**Educational Background**

09-15---Present **University of California, Los Angeles** – Los Angeles, California

Bachelor of Sciences, B.S. Electrical and Computer Engineering

Cumulative GPA: 3.4 Upper-Division GPA:3.5 (Expected graduation: 03/19)

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| 04-17---Present | Ozcan Research Laboratory, UCLA  *Howard Hughes Medical Institute Undergraduate Researcher*  • Design a high efficiency blood parasites scanner using lens-free holographic microscope, based on Arduino-PC communications and AutoCAD modelling. |
| 09-16-- Present | **Bionics Laboratory, UCLA**  ***Undergraduate Researcher***  • Design VR games based on Kinect RGBD camera to facilitate the recovery of physically impaired patients with C# on Unity.  • Research on the upper-lime exoskeleton of the mechanical wearable robots.  • Develop 3D portable projector screen for Virtual Reality with AutoCAD modelling and mechanical parts manufacturing in machine shop. |
| 06-17—09-17 | **Institute of Advanced Communications, Peking University**  ***Summer research intern***  • Developed Indoor 3D Mapping and Navigation System Using Simultaneous Localization and Mapping (SLAM) on Robot Operating System (ROS) with C++.  • Built robotic model via ROS joint state publishers using URDF files (XML). |

**Research Experience**

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| 04-17--- Present | IDEA HACKS Hardware Hackathon, Corporate Team Lead, UCLA  • Contact sponsors to fund UCLA IDEA Hacks. Communicate with company representatives to organize sponsorships, ECE workshops, and speakers. |
| 09-17--- Present | **Mentor SEAS at UCLA**  ***Electrical and Computer Engineering Mentor***  • Provide new electrical and computer engineering students with guidance on class planning, campus life and college transition. |
| 12-16--- 06-17 | **IEEE General Board Officer, UCLA**  • Organized electrical engineering project groups and in-club social events and developed a web-controlled micro-mouse capable of mobilizing, temperature sensing and alarming upon remote control. |
| 09-15--- 06-16 | **Engineering Without Borders, UCLA**  ***Co-designer and Co-chair of fundraising***  • Designed sustainable library and latrine constructions.  • Raised funding for the Ethiopia Library and Latrine Project by contacting interested organizations and making presentation to the Rotary Club in LA. |

**Working and Extracurricular Experience**

**Skills**

* C++, C#, Python, Java, MATLAB, Verilog, XML, Fathom, Unity, Ubuntu, Git
* PCB design, Robot Operating System(ROS), SLAM, Autodesk Inventor, Autodesk TinkerCAD
* Data Acquisition System for Laboratory, LabVIEW, Arduino, Raspberry Pi

**Relevant Coursework**

Circuit Theory and Laboratory, Systems and Signals, Logic Design, Computer Organization, Computer Networks, Electromagnetics, Linear Algebra, Probability Theory, Data Structure and Statistical Reasoning