

JEFFRY WICAKSANA

330 De Neve Drive • Hong Kong • Los Angeles • (1) 925-436-9382 • jwicaksana@ucla.edu

Objective: I am seeking hardware/software engineer internship where I can utilize my skills in a challenging environment, building the success of the company while I experience advancement opportunities.

EDUCATION

Hong Kong University of Science and Technology, Hong Kong	Bachelor of Engineering in Electrical Engineering, minoring in IT & Math Current CGA: 4.01 (Scale of 4.3)	June 2018
University of California, Los Angeles California, United States	Bachelor of Engineering in Electrical Engineering, minoring in IT & Math Current CGA: 3.8 (scale of 4)	Dec 2016

EXPERIENCE

AIO Robotics – Software Engineer internship	October 2016 - present
• Formulate packing problem algorithm (NP-Hard problem) for efficient automated STL placement in 3D printer	
Massachusetts Institute of Technology – <i>Summer Research Intern</i>	June 2016 – August 2016
• Developed Medical Electronic monitoring device for Urine (Home Based Automated Lab-Urinalysis) by Charlie Sodini	
• Designed and manufactured the device, analyzing user’s biomarkers condition	
Visor – CEO	Sept 2014 - present
• Fabricated smart shirt to analyze biomarkers, heart rate, and body posture analyzed through deep learning and neural networks, giving the user feedback on their health and daily activities	
• Created VR gaming platform in iOS similar to PokemonGo before the trailer was out (2014)	
• Won runner up awards twice in healthcare competition mainly sponsored by AIA & Finalists HKUST One Million Dollar	
Heartisans – <i>Hardware and firmware Engineer</i> ; Hong Kong	June 2015 – September 2015
• Devised algorithm for early CAD (cardiac arrest diseases) and other heart diseases prediction software	
• Built & programmed PCB for wearable devices (STM32, Nordic)	

ACADEMIC PROJECTS

Howard Hughes Medical Institute UCLA – Submersible Digital Holographic Microscope	September 2016- Present
• Constructed PCB with efficient power management for underwater applications	
Omni Display System	Summer 2015- Present
• Made algorithm and app for network data sharing between smart devices (unique display system)	
• Display sharing between multiple devices in 2D and 3D for interactive promotion	
Composing Classical Music using Neural Networks	Fall 2015- Present
• Implemented modified LSTM and Data Convolution with Lasagne and Keras to analyze George Frideric Handel Pieces	
• Composed Classical Music based on obtained network from Handel’s Classical Pieces	

LEADERSHIP EXPERIENCE AND ACTIVITIES

Young Catholics Church - <i>Leader</i>	Fall 2013 – Fall 2014
• Managed weekly member meetings, social events, community events, and established strong bonding in the team	
• Planned and coordinated a performance and successfully invited 850 people to watch through smart-intensive promotion	
HKUST Robotics Team, ROBOCON – <i>CFO and Electrical Engineer</i>	Fall 2014 – Winter 2016
• Ran the whole HKUST Robotics sub team, Robocon including team budgeting and finding sponsorship	
• Responsible for designing and inventing the power management board, motor control, motor driver, mainboard and sensor boards in the team. Also analyzed and implemented hardware improvement for the robot	

AWARDS

• Yhack API Challenge Winner (Alteryx, Pitney Bowes)	Fall 2016
• President’s Cup Winner	Spring 2016
• Biggest hackathon in HK, HackUST 1 st runner up	Spring 2016
• HKSAR government & University scholarship (80.000 HKD annually)	Fall 2014 onwards
• Reaching Out Award & Talent Development Scheme HKSAR scholarship recipient	Summer 2015, Summer 2016
• ABU Robocon international 1 st runner up and Champion in Hong Kong competition	Spring 2015

ADDITIONAL INFORMATION

Computer Skills: Python, C, C++, unity, CSS, Solid Works, Altium Designer, MATLAB, VHDL, Pspice, Keil, Java
Languages: Fluent in English and Indonesian, a little in mandarin