

Tingjun (Martin) Ma

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Career Objective

To be able to qualify for an internship position of **Software Developer** in 2017 Summer.

Education

UNIVERSITY OF VIRGINIA	Charlottesville, VA
<i>Master of Engineering in Computer Engineering</i>	Aug. 2016 - Present
<i>Cumulative GPA: 4.0/4.0</i>	
SOUTH CHINA UNIVERSITY OF TECHNOLOGY (SCUT)	Guangzhou, China
<i>Bachelor of Engineering in Information Engineering (Elite Class)</i>	Sep. 2012 - July 2016
<i>Cumulative GPA: 3.43/4.0, Major GPA: 3.71/4.0</i>	

Technical Skills

➤ Computer Languages:	Python ⁺⁺⁺	Java ⁺⁺⁺	Javascript ⁺⁺	HTML/HTML5 ⁺⁺	CSS ⁺⁺
	Android Development ⁺⁺		VHDL ⁺⁺	Assembly ⁺	XML ⁺
	C++ ⁺	C ⁺			
➤ Applications:	Microsoft Visual Studio	Eclipse	Dreamweaver	Quartus II	
	Matlab	AutoCAD			
➤ Operating Systems:	Windows	Linux			

Publications & Awards

➤ Outstanding Senior Project Nomination	June 2016
➤ Yao, Ruohu, Ma, Tingjun , Su, Shaoyan. (2015). Design and Implementation of 24-bit Parallel Prefix Adder Based on Sklansky Structure. <i>Modern Electronics Technique</i> , (38)21, 145-148	Nov. 2015
➤ Third Prize Scholarship and Merit Student for two consecutive years at SCUT	2014 & 2015

Researches & Projects

Robot and Human Interaction with Vision and Audio	Aug. 2016 - Dec. 2016
➤ Accomplished robot walking and gestures showing using Python based on Linux and Raspberry Pi 3	
➤ Implemented visual recognition with Pixy and speech analysis with PyAudio and programmed to respond via APIs	
➤ Embedded emotions and synergic expressions and created APIs for higher hierarchy for further development	
➤ Designed the Blackjack game on the robot and interactively played the game between robot and humans	
Real-time Handwriting Recognition	Oct. 2016 - Nov. 2016
➤ Applied kNN algorithm on selection of best matches in Machine Learning and completed training using Python	
➤ Recognized real-time numbers written on writing pad and achieved accuracy of 98.84% in numbers recognition	
Bicycle GPS Recorder and Outdoor Kits (Android Application)	Mar. 2015 - June 2015
➤ Recorded GPS coordinates where bicycles parked and retrieved GPS information from SMS sent by the host on bicycles	
➤ Utilized Baidu Map API to guide users to the bicycle location with planar map and street view	
➤ Combined compass, gradiometer, flashlight and multifunctional clock together using Java for outdoor bicyclers	

Internship Experience

The Fifth Electronics Research Institute (CEPREI Laboratory)	Guangzhou, China
Ministry of Industry and Information Technology - IT Intern	Sep. 2015 - Nov. 2015
➤ Imported and processed instruments standard data in database and verified with existing data	
➤ Reported flaws on instruments based on test data and offered professional suggestions to clients	