Haotao Lai

Pho	one: (86) 15913178542 Email: qq584863350@gmail.com
Education	Guangzhou University Sept.2012 - Now
	Major: Mechanical Automation Engineering (BSc. expected in June 2016)
	Overall GPA: 79%
	IELTS: 6.5 (no band below 6)
Academic	Internet express system Sept.2014 - Now
Projects	- Created intelligence-based interactive system using Java for android
	- Implemented communication between android and STM32 as the control unit
	- Received 10,000 RMB funding and a patent authorization
	Obstacle avoidance remote control robot March - June 2015
	- Created using Arduino and Visual Basic
	- Independently wrote the libraries using Arduino
	- Used three casters for implementing the Omni's moving direction; RS485
	communication protocol to organize the sensor network; Visual Basic for master
	computer's UI and controller; and a wireless video transmit module with the
	controller
	Obstacle avoidance / remote control car Sept. 2014 - Jan. 2015
	- Team leader for creating system using AVR resources (including IO operation,
	interrupt, timer, UART, SPI)
	- Integrated system with several sensors (ultrasonic, infrared, and Bluetooth) and
	two DC motors
	- Algorithms applied for obstacle avoidance
	Special design projects for blind and disabled people March - June 2014
	- Projects funded by Guangzhou Education Bureau
	Entertainment based system (dancing mat) for blind children
	- Developed (as 2 nd author) using STM32, SD card, I ² C communication protocol
	and DMA
	- Through investigative research done at the Guangzhou Blind Children School to
	better learn how to design communication for children's needs
	Search tool for blind children
	- Developed (as 2 nd author) using Arduino and NRF24L01
	Disability assistant page reader
	- Applied mechanical engineering design as 1 st author for the linkage, and
	fabrication of the synchronous belt pulley and the motor
	Forklift truck system Sept. 2013 - Jan. 2014
	- Developed (as 1st author) using Arduino, Bluetooth, android, and 3D printer
	- Received a 2nd place in school project competition and a patent authorization
School and	- Committee Member and Director in the Student Union
Volunteer	- Volunteer in different capacities at several Canton Fairs
Activities	- Student tutor, assisting students to pass math and physics exams
Awards	- Outstanding Student Award (2012)
	- University's Science and Technology Innovation Contest (2 nd place in 2013)
	- Guangzhou University Lab Competitions (1st and 2nd place in 2013 and 2014)
Relevant	Programming Languages : C and Java National Computer Rank Examination Level 2
Computer	Computer Aided Design: Solidworks AutoCAD Altium Designer
Skills	Stimulation Software: Proteus
	Microcontroller Development: Arduino 80C51 AVR Stm32