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Haotao Lai

Phone: (+86) 15913178542 Website: laihaotao.github.io Email: qq584863350@gmail.com Sept.2012 - Now Education **Guangzhou University** 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 Created intelligence-based interactive system using Java for android **Projects** Implemented communication between android and STM32 as the control Received 10,000 RMB funding and a patent authorization A kind of smart home demo base on Android and STM32 Sept.2015 - Oct. 2015 Completed the whole Android app by myself Used the Bluetooth to communicate with the STM32 Awarded as the first-class project in my class 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 2nd author) using STM32, SD card, I²C 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 2nd author) using Arduino and NRF24L01 Disability assistant page reader Applied mechanical engineering design as 1st 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 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 Outstanding Student Award (2012) Awards Second Class National Scholarship (2015)University's Science and Technology Innovation Contest (2nd place in 2013) Guangzhou University Lab Competitions (1st and 2nd place in 2013 and 2014) Second Class National Scholarship Relevant Programming Languages: C , Java, National Computer Rank Examination Level 2 Computer Aided Design: Solidworks Altium Designer Computer Stimulation Software: Proteus **Skills** Microcontroller Development: Arduino 80C51 AVR Stm32

Integrated Development Environment: Android Studio NetBean Eclipse