CHUNYANG HUI

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https://github.com/jessehui

Summary

Electrical & Computer Engineering graduate student with experience in C language and MCU, Python, ARM Cortex-M Series and web developing based on Django. Also with several project experiences and two patents. Seeking for a summer internship opportunity related with Embedded System and hardware design.

Education

- **University of Illinois at Chicago** - Chicago, IL   Expected: May 2017
  Master of Science, Electrical & Computer Engineering   **GPA: 3.75/4.0**
- **Northeastern University** – Qinhuangdao, China (Project 985,211)   June 2015
  Bachelor of Science, Electronic & Information Engineering   **GPA: 3.61/5.0**
  Recipient of 2nd Prize Scholarship (2 years) and **Tech-innovation** Scholarship (1 year)

Skills

OS: Windows, OSX, **Linux**(Ubuntu)
Programming Languages: C, Python, Verilog HDL, Assembly Language, **MySQL**, HTML, CSS, Shell
Software: **Vim**, Keil C, **Keil MDK**, IAR, **Quartus**, Altium Designer, Proteus, **LabView**, MATLAB, 123D Design, **MindNode**
Hardware: **8086**,8088, 8051, STC12C5, **MSP430**, **STM32F4**, ATmega328P, Oscilloscope, Soldering
Present Studying: VLSI Design and Verification (school work), ARM-Cortex M Series, **uCOS** (self study)
Language: English, **Chinese**

Engineering Experience

Member, Combat Robot Group, Chicago Engineering Design Team Club   Sept 2015 – Present
- Studied mathematical expression of rigid body motion using **MATLAB**
- Programmed RedBot Project based on **Arduino** (main processor: **ATmega328P**), realized the functions of tracing, motion planning, **Bug Algorithm**
- Leader of team constructing New Combat Robot

Team Leader, Arch de Triumph Team, Northeastern University, China   Sept 2013 – Sept 2014
- Organized a tech-innovation team and created **Access Control System based on Wi-Fi and Smartphones**
- Created the idea to use camera to identify the person(s) outside and use smartphones to control the lock. Originated two levels of locks to be convenient and safe
- Studied GSM module (**TC35i**, STC12C5) and learned the method to implement **IP camera**
- Won the **National 1st Prize** of *'ICan'* China University Student Internet of Things Innovation and Entrepreneur Competition

Member, MCU League, Northeastern University, China   Feb 2013 – July 2013
- Participated in project "**Wireless Positioning System based on RSSI**", got familiar with **ZigBee** Protocol, **IAR** development tools, **UART** serial port communication programming, registers and functions of CC2530, and fundamentals of positioning based on received Signal Strength Indication (RSSI)
- Team member in the project "**Digital thermometer based on DS18B20**" and was responsible for the implementation of hardware and programming. Got familiar with **8051** micro-processor, Keil C, hardware design
- Learned fundamental of **High Speed** PCB and **4-layer** PCB layout. Experienced in soldering a radio.

Working Experience

Secretary, Technology & Innovation Department, Northeastern University, China   Oct 2012 – June 2013
- Installed and upgraded operating system and software programs
- Assisted students with PC problems, configuration of networks and tutored students in software like MATLAB, Office Suite, Keil, Quartus
- Organized large technical competition including *Lanqiao* Software Competition and Electrical Design Competition

Market Promotion Intern, EF Education First, China   July 2013 – Aug 2013
- Hosted promotion events to help students and parents know more about EF
- Made good connection with parents of children who might be able to take trial classes for free and persuaded them to choose us
- Managed and maintained promotion supplies

Intern, Hengsheng Digital Plaza, China   June 2012 – Aug 2012
- Assembled PCs and installed operating systems
- Offering technical support for customers with software problems
- Promoting LCD and LED Displays with newest technology

Patents

Intelligent access control system based on WIFI (CN204288341U)   April 2015
Access control system (CN204288342U)   April 2015

Involvement and Awards

Won the Individual 1st Prize with the speech *"How Bad Do You Want To Succeed"*   Sep 2013
Worked as a volunteer in *The Bank of America Chicago Marathon*   Oct 2015

惠春阳

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个人总结

电气与计算机工程 (Electrical & Computer Engineering) 硕士在读, 经验主要包括嵌入式软件, 硬件电路设计, 参与过 Web 开发. 同时具有丰富的项目经历, 并持有两项国家实用新型专利. 2016.5 中旬回国, 希望获得一份嵌入式相关的暑期实习工作, 可以坚持一周七天, 持续三个月.

教育经历

- **美国伊利诺伊大学芝加哥分校**- Chicago, IL (US News 2016 世界排名 174)　　　　　毕业日期: 2017.5
  硕士(Master of Science), 电气与计算机工程(Electrical & Computer Engineering)　　　**GPA: 3.75/4.0**
- **东北大学** – 中国, 秦皇岛 (985,211 工程院校, 教育部直属)　　　　　　　　　　　　　2015.6
  学士, 电子信息工程　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**GPA: 3.61/5.0**
  三次二等奖学金, 三次三等奖学金, 一次**科创奖学金**, 一次单项奖学金

技能

操作系统: Windows, OSX, **Linux**(Ubuntu)

编程语言: C, Python, Verilog HDL, Assembly Language, **MySQL**, HTML, CSS, Shell

软件: **Vim**, Keil C, **Keil MDK**, IAR, **Quartus**, Altium Designer, Proteus, LabView, MATLAB, 123D Design, MindNode

硬件: **8086**,8088, **8051**, STC12C5, **MSP430**, **STM32F4**, ATmega328P, 示波器, 电路板焊接

学习方向: VLSI Design and Verification (在校), ARM-Cortex M Series, **uCOS** (自学)

英语: **TOEFL: 100**, CET-6: 547, CET-4: 567

项目经验

成员, Combat Robot Group, Chicago Engineering Design Team Club　　　　　　　　　　2015.9 至今
- 学习了刚体运动的数学表达方式并利用 MATLAB 进行仿真
- 对基于 **Arduino** 的 **RedBot** 项目进行编程 (主控 CPU: **ATmega328P**), 实现了循迹, 路线规划, **Bug 算法**等功能.
- 领导进行新型 Combat Robot 的构建

队长, 凯旋队, 东北大学　　　　　　　　　　　　　　　　　　　　　　　　　　　2013.9 – 2014.9
- 组织成立了科创团队并建造了自己的产品**"基于 Wi-Fi 和智能手机的门禁系统"**
- 提出利用摄像头辨认访客并利用智能手机控制门锁的产品逻辑. 并创造性地提出利用双层锁来兼顾安全与方便
- 学习了 GSM 模块(**TC35i**, STC12C5)并了解了实现**网络摄像头**的方法
- 获得 ICAN 中国大学生物联网创新创业大赛**全国一等奖**, 河北省**百强项目**等奖项.

成员, 单片机社, 东北大学　　　　　　　　　　　　　　　　　　　　　　　　　　2013.2 – 2013.6
- 参与了"**基于 RSSI 的无线定位系统**"项目,熟悉了 **ZigBee** 协议, 学习了 **IAR** 开发环境, **UART** 串口通信原理与实现过程, CC2530 寄存器及功能, 了解了 RSSI 无线定位技术
- 在"**基于 DS18B20 的数字温度计**" 项目中负责硬件搭建和编程. 学习了 **8051** 单片机, **Keil C** 开发环境, 芯片外围电路设计等
- 了解了**高速 PCB** 和 **4 层**及以上 PCB layout 过程. **焊接**过两台收音机

工作经历

干事, 科技创新部, 东北大学　　　　　　　　　　　　　　　　　　　　　　　　　2012.10 – 2013.6
- 安装升级操作系统和软件程序
- 帮助学生解决 PC, 网络配置等问题, 教导学生学习专业软件如 MATLAB, Office Suite, Keil, Quartus
- 组织大型的科技比赛如"蓝桥杯"软件人才大赛,中国大学生电子设计竞赛

市场推广实习生, 英孚教育(EF), 郑州　　　　　　　　　　　　　　　　　　　　　2013.7 – 2013.8
- 组织推广活动,帮助学生和家长更好的了解公司和课程
- 和孩子的家长建立良好的联系, 推荐他们带孩子参加试听课
- 管理和维护用于推广的设备

实习生, 恒升数码广场, 新乡　　　　　　　　　　　　　　　　　　　　　　　　　2012.6 – 2012.8
- 组装 PC 并安装操作系统

- 为客户提供软件类的技术帮助
- 向顾客推销最新款的液晶显示器

专利

基于 Wi-Fi 的智能门禁系统(CN204288341U)	April 2015
门禁系统(CN204288342U)	April 2015

社会参与与奖励

参与在大连周边郊县进行的暑期社会实践, 并获得"优秀个人"荣誉称号	2013.8
以演讲 "How Bad Do You Want To Succeed"获得**中国高等教育学会**英语演讲比赛**个人一等奖**, 团队一等奖	2013.9
在芝加哥国际马拉松赛中提供志愿者服务	2015.10