

Daizong Tian

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EDUCATION

Northwestern University

Sep 2019 - Current

MS Electrical and Electronics Engineering

Overall GPA: 4.0/4.0

Core Courses: Human Computer Interaction; Machine Learning; Intro. to Computer Vision; Random Processes-Comm & Ctrl; Statistic. Pattern Recognition; Computational Photography;

Beijing University of Posts and Telecommunications & Queen Mary University

Sep 2015 - Jun 2019

BSc(Eng) Telecommunications Engineering with Management [Joint Bilingual Program]

Overall GPA: 3.25/4.0 | Lab GPA: 3.7/4.0

Core Courses: *Linear Algebra; Signals and Systems; C Programming Fundamentals; Digital Signal Processing; Digital Circuit and Logic Design; Telecoms Systems; Internet Protocols; Mobile Internet; Advanced Transformation Methods*

RESEARCH AND PROJECT EXPERIENCE

Georgia Institute of Technology

Aug 2018 - Oct 2018

Sensors and Intelligent Systems Laboratory, ECE Department | Supervisor: Professor Ying Zhang

Evaluation Grade: A+

- Expanded the data acquisition system for a non-contact vital sign detection system focused on noise suppression
- Investigated signal processing algorithms for extracting heart waveforms; Expanded the system from 2 channels to 8 channels with Keli, STM32Cube, Visual Studio, MATLAB
- Improved the power supply module by applying low noise power circuit; Reduced background noise by developing the power supply module and re-designing the codes for the embedded system, achieving SNR increase from 28.3dB to 40.9dB

Drawing Android 'Dream Droid' Team Construction Project

Sep 2017

- Built a drawing droid that received orders from IR remoter/smartphone to draw any given figure
- Established the physical part of the android and main code in Arduino; Designed and printed the PCB of amp circuits for the step motors using Altium Designer
- Improved drawing accuracy from both physical and code perspectives to achieve the most accurate android ever built in 600 previous team attempts

Ticketing System Course Project

Sep 2016

- Developed a ticketing system for airline companies that included backstage administrator module and front desk clerk module; achieved almost all functions of contemporary professional ticketing systems
- Designed the frame and layout of the system using C language
- Wrote 3000 lines for the system; completed debugging and optimization of code written by team members
- Earned top-ranked system among 300 people

PROFESSIONAL WORK EXPERIENCE

LuBian Internet Information Co. Ltd.

Dec 2017 - Feb 2018

- Developed the database and DAO layer of a personal management system for a kindergarten using Java and MySQL; created backstage administrator module and frontend desk clerk module
- Developed the circuit for a wireless RFID card reader with long battery life by applying low voltage variable gain amplifier and RCC for IoT wireless module using Keli, Altium Designer, Proteus
- The completed management system application was sold to a local kindergarten

SKILLS

Languages: Mandarin; English (TOEFL: 106 [Reading 29; Listening 28; Speaking 23; Writing 26])

Programming: C, Java, C++, Python, JavaScript, ActionScript, MATLAB

Development Tools: Altium Designer, Proteus, Keli, LabVIEW, Multisim, MATLAB, AutoCAD, Animate CC

Interests/Hobbies: Photography; Cycling; Developing amplifiers/personal audio electronics