

EDUCATION

Michigan Technological University MS Electrical Engineering GPA: 3.95	Houghton, MI August 2010
Tsinghua University (THU) MS Nuclear Engineering Focus: Radioactive Imaging	Beijing, China 2007
Beijing University of Aero and Astro (BUAA) BS Automation Science	Beijing, China 2005

ENGINEERING EXPERIENCE

Apple Inc. Cupertino, CA
iPhone Developer: Apple Store Mobile App

I can't tell you any details about this. But what I want to tell you is, it is a cool app, download and try it!

Vobile Inc. Santa Clara, CA

iPhone project: demonstrating VideoDNA technology

Objective: Develop an iPhone app to demonstrate VideoDNA and targeted ads technology

Methods:

- Playback of videos stored on the iPhone and the Vobile server, using MPMoviePlayerController.
- Calculate/cache identification information of video files
- Send video information to the server; get response about video information as well as targeted advertisement
- Overlay translucent text information and ads when video is playing
- Redirect to ads url or make a phone call upon clicking the ads

Results:

- A user-friendly iPhone app, based on navigation controller and table view
- Demonstrated VideoDNA technology, which identifies video content
- Demonstrated targeted advertisement based on VideoDNA

iPhone Development Program

Independent iPhone / iPad Developer

- Focus: image/video processing apps, animation apps, drawing apps
- Screen Saver Pro~: top 10 in Dice
- Animation FX HD: top 20 in Entertainment
- Color Magic Lite: top 5 in Photography
- Design, develop, test, and distribute more than 10 iPhone / iPad applications all by myself
- Adopt an iterative and incremental development pattern
- Writing a book "iPad Practical Programming"

Boston Scientific Corp. Minneapolis, MN

Internship: developing an iconic interface for a medical device

Objective: Use C++ to develop an iconic interface for a medical device

Methods:

- Design user interface with UI designers
- Write a BMP parser. Implement the iconic interface with C++
- Conduct usability test

Results:

- A device with iconic interface prototype running and ease of use proved by usability test
- Knowledge of waterfall development and multi-thread programming

iPhone Developer Club
President and Initiator

Houghton, MI

- Lead the team to develop iMTU – an iPhone app which introduces Michigan Tech to the world
- Initiated the club, to gather the talented minds in programming, artwork, and design together

Michigan Technological University

Houghton, MI

Research Assistant: on Spectrum Sensing in Cognitive Radio

Objective: Explore faster and more reliable spectrum sensing methods that are suitable for Cognitive Radio

Methods:

- Studied/Researched existing methods, principles, and nuances in each
- Chose Cyclostationary Feature Detection to explore
- Designed a Spectrum Sensing method for Cyclostationary Feature Detection that uses fewer samples, which in turn, made the process more energy efficient and less expensive
- Performed computer simulations to prove feasibility of design

Results:

- Designed a Spectrum Sensing method which is more energy efficient than existing ones.
- Co-authored a journal paper and a conference paper.

NUCTECH

Beijing, China

Nuclear Engineer

Objective: Test the application of X-Ray Phase Contrast Imaging in X-Ray inspection systems, and obtain better imaging quality than traditional ones.

Methods:

- Design a small inspection system based on X-Ray Phase Contrast Imaging: x-ray source choice, system parameter design, and detector packaging.
- Implement the system by attaching a new detector to micro-focus x-ray sources.
- Cooperate with teammates to program software (data acquisition, command transmission, data processing, and result illustration) to operate the system, using C++.

Results: Testing system showed much better ability in imaging weak-absorption materials and comparable quality in imaging strong absorption materials.

SKILLS

Computer

- Office Suite
- Latex
- Photoshop
- Dreamweaver
- Mac OS/Linux/Win

Technical

- Objective C
- C++
- QT
- Matlab
- HTML
- Cocoa API

Language

- English
- Chinese (native)
- Japanese (JTESTF)

AWARDS & ACHIEVEMENTS

- Best Master's Thesis of Tsinghua University (top 5%)
- Beijing University of Aeronautics and Astronautics Scholarship
- Second Prize in Hua's Mathematical Competition
- Attended University at age 16
- Received MS from top university in China – THU
- Event Organizer - Michigan Tech Mini Olympics
- President of Graduate Student Union – Department of Engineering Physics, THU
- Coach of Woman's Volleyball Team – Department of Engineering Physics, THU