

Yibo Ji

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Project demos: www.yiboji.net/projects

OBJECTIVE

To obtain an internship in the field of Computer Science during Summer 2016

EDUCATION

Expected **University of Southern California, Los Angeles, California, USA**

Dec. 2016 • Master of Science in Computer Science, GPA 3.89/4.0

Jul. 2013 **Hefei University of Technology, Hefei, Anhui, China**

• Bachelor of Engineering in Measuring Testing Technologies and Instruments, GPA 3.3/4.0

SKILLS

Programming C/C++, Java, Python, C#, Shell Script

Database MySQL, MongoDB

Web Development JavaScript, NodeJS, AngularJS, PHP, JSON, AJAX, Bootstrap, JQuery, HTML, CSS.

Embedded System Developing hardware and software for embedded systems based on ARM Cortex-M series MCU.

PCB Design Altium Designer, 2-layer PCB design, 4-layer PCB design

WORK EXPERIENCE

Aug. 2015– **Research Assistant, Information Sciences Institute of University of Southern California, LA, USA**

present • Technique used: C, Python, Shell Script, ALSA, NodeJS, MongoDB and Altium Designer.

• Description: Implemented a technique to record and process audio, and then transfer audio files to a backend server using microphone and other modules found on Nexus mobile phones. Also designed the 4-layer PCB of an embedded Linux audio system.

Nov. 2013– **Research Assistant, Hefei University of Southern California, Hefei, China**

May. 2014 • Technique used: C, Altium Designer, ARM Cortex-M3 processor and Siemens PLC S7-300.

• Implemented an embedded gateway used for the connection of two different industrial networks based on ARM Cortex-M3 processor. Designed the whole project including software and a 2-layer PCB.

ACADEMIC PROJECTS

Spring 2015 **iOS Tower Defense Game (in progress, C#)**

• Implementing the attributes and skills of towers using C# and Unity game engine.

Fall 2015 **Weenix OS kernel hacking, (C, GDB, GIT)**

• Implemented the kernel process, thread, VFS layer and Virtual Memory for the Weenix OS.

Summer **Manage-side and Customer-side website for e-commerce company**

2015 • Implemented the full stack of two websites by using HTML, CSS, JavaScript, JQuery, AJAX and JSON.

Spring 2015 **Socket Programming, (C, TCP, UDP)**

• Implemented program of clients and servers so that clients can request information from servers through Internet like the way of what DNS request does.

AWARDS

2012 **National First Prize in China, 7th National Undergraduate Students "Freescale Cup" Intelligent Car Competition**, awarded by the Freescale Semiconductor

• Implemented an intelligent model racing car based on ARM processor. Used a rotatable sensor to follow up racing routes, and came up an innovative follow-up algorithm to maximize its speed.

PUBLICATIONS

Yibo Ji, Yang Zhang, and Zhilong Liu. (2013). "Design of follow-up control in auto-tracking smart car system." Applied Mechanics and Materials, 312–324, 635.

WORK AUTHORIZATION F-1 Visa