

# XIN CHEN

9244 Regents Road Apt-I, La Jolla, CA 92037 • (858) 888-3659 • xryanchen@gmail.com

## EDUCATION

**University of California, San Diego** La Jolla, CA • Graduate student in Electrical and Computer Engineering Department, 2011-2013

• Selected Coursework:

**Communication Theory and System:** Information Theory · Random Processes · Digital Communication I, II · Antenna Systems and Applications · Communication Theory & Modern Wireless Communications · Advanced Data Structures · Design & Analysis of Algorithm · Server-side Web Applications · Intro to Embedded Computing

**Shanghai Jiao Tong University** Shanghai, China • Bachelor of Science in Electrical and Computer Engineering, 2007-2011

• Selected Coursework:

**Electrical and Computer Engineering:** Computer Networks · Digital Signal Processing and Analysis · Signal and Systems · Computer Organization · Digital Integration Circuits · Electronic Circuits · Physical Principles Underlying Smart Devices · Semiconductor Devices · Microwave Engineering · Electromagnetics · Programming & Data Structures

**Mathematics:** Boundary Value Problems for Partial Differential Equations · Probabilistic Methods in Eng. · Discrete Mathematics · Applied Calculus II, III, IV

## WORK & RESEARCH EXPERIENCE

**Laserfiche Corporate** (Jun 2012 - present)

***Full time Software Engineer intern***

- Developed the emerging features on web applications team for Laserfiche Business Process Management product series. Finished the implementation of JQuery dialogs and HTML5 Canvas utilities with KineticJS framework. Solved more than 100 SCRs.
- Designed and implemented a smart XPath builder as one of the core features in the Form product, which tracks user input and selection and helps to build the right expression from the back-end in one moment.
- Using ASP .NET MVC 3 framework as project structure, and ADO .NET Entity Framework 4.1 as the ORM framework. HTML5 new technologies, JavaScript and C# are widely used in the project.

**National Instruments Corporation** (Dec 2010 - Jun 2011)

***Full time Applications Engineer intern***

- Solved industrial problems for over 100 customers in real applications with professional skills, including software programming (LabVIEW, C, Matlab, MySQL, CVI, TestStand, Vision Builder for Automated Inspection, OPC server, etc), hardware configuration (PXI/PCI buses, RF processing instruments, FPGA, Signal Conditioning eXtensions for Instrumentation (SCXI), Data Acquisition instruments (DAQ), Wireless Sensor Network (WSN), etc) and testing/debugging for returned instruments.
- Achieved the title of Certified LabVIEW Associate Developer granted by National Instrument (SN: 100-311-1085).
- Had excellent teamwork with colleagues in NI tech show. Got recommendation from department manager.
- Built several demos/solutions with hardware communication systems and corresponding software programs to solve industrial problems from customers.

**Honeywell International Inc** (Apr 2010 - Jun 2010)

***Marketing assistant intern***

- Optimized and Translated a series of technical documents for new products handbook.
- Managed the documentation and electrical database with Microsoft Office softwares.
- Won Honeywell Innovators Scholarship selected by Honeywell globally from their best interns.

**UC San Diego, Course project on Embedded System design for lower power consumption** (Jan 2012 - Mar 2012)

***Teamwork Research***

- Design new frequency allocation policy on Qualcomm's snapdragon MSM8660 Mobile development platform for energy efficiency.
- Rich literature research and over 600 lines programming in C and shell script resulted in an efficient policy ranked 10

**Shanghai Jiao Tong University, Mobile vehicle research center** (Sep 2010 - Dec 2010)

***Capstone Design team leader***

- Designed and constructed a light weight unmanned aerial vehicle embedded control system. Responsible for the software part that configuring sensors and GPS module, as well as the airplane parameters.
- Got grade A in Capstone design and enrolled the 4th National Undergraduate Innovative Project in China.

**Shanghai Jiao Tong University, Wireless Network lab** (Nov 2009 - Nov 2010)

***Research Assistant***

- Researched on communication systems and relay architecture (mainly in MAC layer design) in LTE-Advanced background. A hybrid relay design has been proposed.
- Finished a communication project to verify and prove the robustness of different CRC error detection methods in communication technology, including full documentation and 5000+ lines coding with C++.

## SKILLS

- Proficiency in Linux environment programming with C++, C#, JavaScript, SQL, LabVIEW; Familiarity with C Shell, PHP, HTML; basic in Python, VHDL.
- Familiarity with PXI/PCI, GPIB, motion/vision control systems, Data acquisition/processing systems and common industrial communication hardware.
- Familiarity with Matlab, Mathematica, ADS, PSPICE and other engineering software tools in ECE field.