

# Zhiyi(Joey) Liu

Phone: (716) 495-1250

E-mail: zhiyiliu1989@yahoo.com

1496 Suffolk Dr,  
San Jose, CA, 95127

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## OBJECTIVE

A fresh graduate student with 4 years programming experience is seeking an internship/full time opportunity as a software Engineer.

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## EDUCATION

**The State University of New York at Buffalo, Buffalo, NY**

Master of science in Electrical & Electronics Engineering, 2013.8~2015.2 GPA: 3.801/4.0

**Nanjing University of Posts & Telecommunications, Nanjing, China**

Bachelor of Engineering in Communication Engineering, 2009.8~2013.6, Top Class

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## SKILLS

- Proficient knowledge and experiences of Object-Oriented programming in Java
  - Extensive programming in C and Matlab
  - Familiar with multiple developing environment: Eclipse, Matlab and Visual Studio
  - Hands-on experience with MySQL and proficient operation of phpMyAdmin
  - Proficiency in HTML5, CSS, PHP, JavaScript and web-development skills in Dreamweaver
  - Proficiency in MS Office, AutoCAD and 3Dmax
  - Network design with ns-3 and Wireshark
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## EXPERIENCES

### Java Application: Antenna Array Generator.exe(2015)

- Gathered requirements and designed project from scratch.
- Designed and implemented the presentation layer in JAVA.
- Implemented the backend algorithm in JAVA.
- Designed database schema and wrote SQL stored procedures in MySQL.
- Converted the Jar file into an executable application under Windows 7 operating system.

### Web Development: Online Album(2015)

- Created front-end online albums using Adobe Dreamweaver with HTML5 and CSS.
- Developed user-friendly pages by utilizing jQuery to add special effect to UI layer.
- Built a back-end database that enables comments can be shared and reviewed.
- Connected the pages and the database by using PHP.

### Networking Design Project(2014)

- Designed different kinds of networks and different network topologies in C++.
- Monitored and analyzed the IP packets by Wireshark.

### Matlab Project: Real-time Communication System Based on Seismic wave(2014)

- Researched how seismic wave is utilized in real-time communication.
- Designed a seismic communication system, including seismic signal generator, source coding and modulation method, etc.
- Utilized Matlab to simulate a multi-receiver solution, increasing the BER of the seismic communication method by 60%.

### Internship: Engineering Assistant in Devon Medical Products, Philadelphia, PA(2014)

- Repaired extriCARE® 2400 NPWT Pump and CircuFlow® 5150.
- Performed operating test and the blockage alarm test of CircuFlow® products.

### Internship: Engineering Assistant in Jiangsu Posts & Telecommunications Planning & Designing Institute, Nanjing, Jiangsu, China(2013)

- Analyzed the principal & advantage of phase-only control method.
- Programmed in Java to simulate the control method by using recursive algorithm.
- Optimized the maximum and minimum beam to target direction with accuracy of 1°.