

# DEREK HANGTIAN ZHAN

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## EDUCATION

**Bachelor of Engineering: Software, Embedded System Design** - (Graduated 2015)

**Bachelor of Arts: Economics** - (Graduated 2016)

McMaster University, Hamilton, Ontario

## RELEVANT PROJECTS

**Design Project** -2011

- Conducted and participated in a group project with McMaster Engineering to develop and upgrade wireless network solution for campus

**Java Battleship Project** -2012

- Built a Battleship game running with 4 students under test-driven development

**Android Mobile Database Project** -2013

- In a team of 5, developed an Android mobile application for a medical information system
- In charge of encryption description algorithm and UI design

**Altera Quartus Project** -2014

- Participated and constructed a tic-tac-toe game running on embedded DE2 FPGA Board and implemented with VGA, PS/2 keyboard in Verilog language

**Capstone Project** -2015

- Hybrid Vehicle Power Train System Optimization for McMaster EcoCAR3 Team
- Participate in software document writing, Matlab implementation and optimization algorithm

## SKILLS

- Proficient with Java, Python, C/C++ ,Objected Oriented Programming and Development
- Ability to use Matlab, Android, Linux and MIPS Assembly, Eclipse IDE, SQL Database
- Experienced using HTML/CSS, Javascript ,Java Servlet App, Adobe Photoshop,
- Learning MongoDB, Hadoop, AngularJS

## Language

- Fluent in Chinese in verbal and written (Cantonese and Mandarin)
- Professional Proficiency in English

## EXPERIENCE

**Intern Front Desk, Twinsun Automation Instruments Co., Ltd; Shenzhen City, Guangdong Province** 2008-2009

- Learning basic use of Adobe Photoshop for company website design
- Assisted with sales administration in documentation and presentation
- Maintain server and management on security aspect

## EXTRACURRICULAR ACTIVITIES

- Volunteer for Toronto Pam Am Games - Hamilton Kick It Up Event 2015
- Joined McMaster Programming Challenge - 4th Place 2015
- Joined RBC Next Great Innovator Challenge 2014 - Prototyping Event 2014
- Student Member, McMaster Engineering Society 2011 - 2015
- Student Volunteer, Queer Student Community Centre 2011 - 2012