

**SO MAY YEE BRENDA**

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- Education: **THE COOPER UNION FOR THE ADVANCEMENT OF SCIENCE AND ART, NY**  
Bachelor of Engineering, Electrical Engineering, Projected 3.93 May 2018
- LI PO CHUN UNITED WORLD COLLEGE OF HONG KONG, Hong Kong**  
Bilingual International Baccalaureate Diploma (IB Diploma), Graduated May 2014  
Took Chemistry HL, Biology HL, Maths HL, Chinese A Lit SL, English A Lit SL, Political Thought SL  
Total Points: 42/45
- Related: Digital Logic Design, Engineering in Design, Introduction to Computer Science, Vector Calculus  
Course Programming Languages, Circuit Analysis, Physics Simulation, Physics – E&M
- Project Work: **DIGITAL LOGIC DESIGN, The Cooper Union** Spring 2015  
- Designed a tic-tac-toe game that utilizes digital logic elements such as timing and memory IC  
- Constructed a prototype of the tic-tac-toe game with a partner  
- Illustrated the detailed components of the tic-tac-toe game with a CAD program
- RAMESES II, Engineering in Design, The Cooper Union** Fall 2014  
- Coordinated, designed and prototyped a man-sized shelter from indigenous resources in sub-Saharan Africa for Somalian refugees in cooperation with the UNHCR  
- Completed a written report with coordination team on the design process of the shelter
- Experience: **INVENTION FACTORY, The Cooper Union** Summer 2015  
- Designed and prototyped a depth-limiting CPR machine with a partner that allows people to administer CPR at the correct depth without breaking ribs along with a built-in mechanical advantage  
- Presented the CPR machine to 10 external judges each week and improved the CPR machine upon the judges' comments  
- Completed Powerpoint with a partner on pitching the CPR machine  
- Wrote and submitted a 15-page provisional patent application to USPTO
- SOCIETY FOR THE PREVENTION OF CRUELTY TOWARDS ANIMALS, Hong Kong** 2013-2014  
Intern, Marketing Department  
- Wrote a 200-page book in Chinese on the work of SPCA Inspectorate  
- Interviewed legal advisors, vets and inspectorates to collect information for the book  
- Supervised the process of publication along with the community director and publisher  
- Cooperated with the community director in publishing a book to raise awareness on animal welfare in general public
- INTRODUCTION TO ARDUINO, Hong Kong** Summer 2014  
- Learned to use the C language different components of the Arduino, including the LCD display, 7-segment LED, IR sensors and ultrasound device  
- Assembled an Arduino car that can auto-maneuver itself along a black line and sense obstacles in the environment
- COMPUTER CENTER, The Cooper Union** Summer 2014 – Now  
- Solved technical issues that students and staff faced in school  
- Addressed to phone calls and printer issues around the computer center
- Skills: Computer Programs: Python, Microsoft Office, iMovie, HTML, CSS, Developing in C  
Language: Fluent in Mandarin, Cantonese and English
- Honors: The Cooper Union, Half-tuition scholarship, 2014-2018  
The Cooper Union, Innovator's Merit Scholarship, 2014-2018  
The Cooper Union, Cooper Union Toastmasters Vice President Membership, 2014  
The Cooper Union, Cooper Cycles, Founder, 2014