

# CHUA TING KAI

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GitHub: <https://github.com/Tingkai911>

My Homepage: <https://tingkai911.github.io/my-homepage/>

## EDUCATION

### National University of Singapore (NUS)

Aug 2020 – Present

- Graduate Diploma in IT Systems Analysis (Expected end date to be July 2021)
- Programming Language: C; C#; Python; Java; JavaScript; HTML/CSS; SQL
- Relevant coursework: Designing backend digital solutions; Developing Full-Stack web solutions; Developing Mobile solutions; Data Analysis and Design

### National University of Singapore (NUS)

Aug 2015 – Aug 2019

- Bachelor of Engineering (Electrical Engineering), Honours
- Cumulative Average Point: 4.67/5.00 (Highest Distinction)
- Relevant coursework completed include Circuit analysis; Programming in C, Python, Matlab, Verilog and Assembly language; Signals and Systems analysis; Engineering Electromagnetism.

### Hanyang University (Korea), Winter School Exchange Program

Dec 2018 – Jan 2019

- Learned about Project Management and Engineering Ethics.

### Tokyo Institute of Technology (Japan), Student Exchange Program

Apr 2018 – Aug 2018

- Completed Masters level modules on Advanced Electromagnetism, Robust Control Systems and Bipolar Transistors and Compound Semiconductor.
- Gained insights into Japanese culture by participating in activities such as regular lab meetings in the university.

## OTHER CERTIFICATIONS

- CS50x Introduction to Computer Science from Harvard University, edX
- Algorithms Specialisation from Stamford University, Coursera
- Responsive Web Design Certification with HTML/CSS from freecodecamp.org
- JavaScript Algorithms and Data Structures Certification from freecodecamp.org

## ACHIEVEMENTS

- Awarded the MOE Edusave Scholarship in 2007, 2008, 2009, 2010, 2011 and 2012 for being in the top 5% of the cohort.
- Awarded the NUS Dean's List recognition during Academic Year 2016/2017 Semester 2 for being in the top 5% of the Electrical Engineering cohort in terms of academic performance.
- Awarded the Tokyo Kogyo Daigaku Kikin (Tokyo Institute of Technology Scholarship) during the duration of the student exchange.

## ACADEMIC PROJECTS

### CS50x Web Track Final Project

April 2020 – Aug 2020

- Designed and build a blogging website, CS50Blog using the Django Python Framework, HTML/CSS with Bootstrap and JavaScript.
- Successfully deployed the application on Heroku and hosted static files on AWS S3.
- Awarded the Verified Certificate of Achievement by Harvard University and edX for the successful project.

### Undergraduate Researcher, Department of Electrical and Computer Engineering, National University of Singapore Aug 2018 – May 2019

- Designed a Reflectarray Antenna at 5.8GHz for wireless power distribution resulting in a final year project thesis and poster.
- Successfully designed and simulated a working prototype with Matlab, CST and AutoCAD.
- Successfully fabricated the prototype for testing.

- Successfully published the technical paper on IEEE 2019 International Conference on Electromagnetics in Advanced Applications (ICEAA). DOI: 10.1109/ICEAA.2019.8879349

**Undergraduate Researcher, Department of Electrical and Computer Engineering, National University of Singapore  
Jan 2017 – Oct 2017**

- Researched on the basis of SAR systems and antenna design.
- Investigated on the impact of antenna configurations on SAR performance.
- Successfully designed, fabricated and tested a 4x4 patch antenna array at 8.4GHz for SAR systems with HFSS.

## **WORK EXPERIENCE**

**Schneider Electric, Sales Engineer (Power Systems)**

**April 2020 – July 2020**

- Promote Medium Voltage Solutions (Oil/Dry-type Transformer, Air/Gas insulated Switchgear and Microgrid solutions) and highlight our value proposition to potential customers in Marine and Oil & Gas segment.
- Planning Marketing Activities, Innovation Hub tours, Annual Marketing and Sales Plan (AMSP) and Annual Marketing Report (AMR).
- Find sales leads and support marketing activities.
- Leading the tendering and project execution team to win projects.
- Involve in customer site visits and project management.

**Schneider Electric, Marketing Executive (Power Systems)**

**June 2019 – March 2020**

- Train in promoting Medium Voltage Solutions (Oil/Dry-type Transformer, Air/Gas insulated Switchgear and Microgrid solutions) portfolio.
- Conduct weekly Innovation Hub tours for regional visitors and dignitaries to demonstrate Ecostruxure solutions for Utilities, Transportation and Oil & Gas segment.
- Support sales for project bidding and highlight our value proposition positioning Ecostruxure as the premium differentiator over competitors.
- Participation in the Annual Marketing and Sale Plan (AMSP) and Annual Marketing Report (AMR) to formulate go-to-market strategies and determine order targets.
- Involve in customer site visits and project management.
- Planning process for company events (SE Day) with more than 500 participants.

**Rolls Royce, Intern**

**June 2017 – Dec 2017**

- Designed and fabricated a PCB for a power distribution controller using Altium software.
- Familiar with using LTspice to simulate different circuit components before implementing them on the PCB.
- Tested the resulting PCB circuit and resolved all possible errors.
- Successfully implemented ADC and PWM using Matlab on the controller with a DSP chip.

**SC Corporal, Singapore Police Force**

**Feb 2013 – Feb 2015**

- Managed up to 30 job applications daily to ensure operational efficiency for recruitment team.
- Conducted weekly bond signing and briefing sessions for successful applicants to sign their contract.
- Planning SPF career fairs to promote Police Officer as a good career choice.

## **EXTRA-CURRICULAR ACTIVITIES**

**NUS Comics and Animation Club**

**Jan 2016 – Aug 2019**

- Involved in club fund raising activities.

## **ADDITIONAL INFORMATION**

- Proficient in Microsoft Office, LtSpice, Altium, Matlab, HFSS and CST.
- Fluent in English and Mandarin (both spoken and written).
- Have Class 3 Driving License.