

# Yi Chen

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## Education

**National Taiwan University**                      **Taipei, Taiwan**                      **Sep 2014 ~ Jun 2018**  
➤ *Bachelor of Science in Mechanical Engineering (ME)*

**Thomas Sprigg Wootton High School**                      **Rockville, MD**                      **Aug 2011~May 2014**

### **COURSE HIGHLIGHTS**

- Bachelor Degree Research Project: Autonomous Vehicle (4 semesters+ 1 summer)
- Design and Practice of Artificial Intelligent Autonomous Electric Vehicles (Project in Computer Vision)
- Propulsion System Design for Electric Vehicles
- Mechanism Design
- Computer Aided Engineering Graphs

## Engineering Skills

- AutoCAD, Pro-E (Creo), Inventor
- MATLAB, ROS, Simulink, LabView, Visual Studio, Ubuntu
- 3D-Print (UpBox, Kinsel, Fortus), Laser cut, Arduino, Raspberry Pi

## Research Experience

### **SYSTEM OPTIMIZATION LAB (SOLAB)**

**ADVISOR: PROF. CHAN, K.Y.**

- *Research Assistant*                      *Sep 2016~Jan 2017*
- Quantitative Comparisons in Lane-Changing Maneuver Safety between Autonomous Driving and Human Driver
- *Layout Designer*                      *RaceCar Team*                      *July 2017~Dec 2017*
- Building a small autonomous racecar as a test platform for research purpose

### **INTELLIGENT VEHICLE & MECHATRONICS LAB**

**ADVISOR: PROF LI, KANG**

- *Designer*                      *Computex Team*                      *Feb 2018~Jun 2018*
- Design exterior for the AGV and manufactured for Computex exhibition
- *Laboratory Assistant*                      *Aug 2018~PRESENT*
- Assistant for Dubai World Challenge for Self-driving Transportation, team iAuto
  - Project Assistant for Autonomous Minivan development
  - Staff of 2018 NTU-UIUC Forum on smart mobility, autonomous & connected vehicles

## Work Experience

### **MECHANICAL INTERN**

**ROBERT BOSCH TAIWAN**

**SEP 2018~PRESENT**

- Assist development team in the process of research and design of security cameras
- Create and modify 2D/3D drawings such as dimension and exploded-view drawings using Creo
- Utilizing 3D printer to create mock-up for design inspection

### **DESIGN INTERN**

**SEE REAL INFORMATION SERVICE TECH**

**AUG 2016**

- Practicing Inventor to visualize real world objects; Learning 3D-printing; Visiting laser cutting factory

### **PRIVATE TUTOR**

**MATHEMATICS**

**SEP 2015~MAY2016, AUG 2017~MAY 2018**

- Specialized in teaching Pre-Cal, Calculus, Geometry and Algebra

## Volunteer

**INTERNATIONAL VOLUNTEER   NTU SOCIAL LEARNING IN NORTHERN THAILAND CLUB   JAN 2016~ FEB 2016**

- Planned innovative activities for orphans and elders
- Taught Chinese in 3 elementary schools, afterschool program for children and day care for veterans in northern Thailand for 17 days

**STUDENT VOLUNTEER                    NTU OFFICE OF INTERNATIONAL AFFAIR                    SEP 2016~FEB 2017**

- Assisting international exchange students in exploring the campus as well as settling down

**BOOTH VOLUNTEER                    TAIWAN URBAN BICYCLE ALLIANCE                    MARCH 2016**

- Promoting green commutes sponsored by city hall in Taipei, advocating for bicycle and pedestrian rights

**VOLUNTEER   HONDAO SENIOR CITIZEN'S WELFARE FOUNDATION                    SEP 2015~JUN 2016**

- Visit lone elders' home on weekends in Taipei, planning activities

**LIBRARY VOLUNTEER                    TECRO LIBRARY IN MARYLAND                    MARCH 2012~ AUG 2012**

- Receptionist, Sorting books onto the shelf, cleaning the environment at the library

## Extracurricular Activities

**VICE PRESIDENT                    NTU SOCIAL LEARNING IN NORTHERN THAILAND CLUB                    FEB 2016~JAN 2017**

- In charge of arranging club events, presenting in the forum with other volunteer clubs

**PRESIDENT                    NTU FIXED GEAR                    SEP 2017~JUN 2018**

- School club for recruiting fixed gear riders and teaching of fixed gear's street culture

**SPORT DIVISION COORDINATOR   ME STUDENT ASSOCIATION                    SEP 2015~JUN 2017**

- Holding variety of sport competitions and events for students in the ME major.

**PHOTOGRAPHER                    PHOTOGRAPHY CLUB FILM EXHIBITION                    AUG 2017**

- Showcasing our film photography on campus, assisted in arranging and managing the exhibition hall

## Certificates

**JAPANESE LANGUAGE PROFICIENCY TEST                    LEVEL N5, N3, N2                    JULY 2017**  
**TOEFL IBT                    SCORE:104/120                    MAY 2018**

## Reference

**DR. LI, KANG                    PROFESSOR                    MECHANICAL ENGINEERING, NTU**

- Email: [kangli@ntu.edu.tw](mailto:kangli@ntu.edu.tw)

**DR. CHOU, C.H                    ADVISOR                    NTU SOCIAL LEARNING IN NORTHERN THAILAND CLUB**

- Email: [cchou@ntu.edu.tw](mailto:cchou@ntu.edu.tw)

**WILLIAM CHOU                    ME TEAM MANAGER                    ROBERT BOSCH TAIWAN**

- Email: [William.Chou@tw.bosch.com](mailto:William.Chou@tw.bosch.com)