**Wei-Jer Chang**

No.133, Zefan Rd., East Dist., Phone: +886 978 001 477

Hsinchu City 300, Taiwan (R.O.C.) E-Mail: [b05502045@ntu.edu.com](mailto:b05502045@ntu.edu.com)

**Education**

**National Taiwan University(NTU)**  Taipei, Taiwan

* Candidate for Bachelor’s in Mechanical Engineering: Cumulative GPA 4.15/4.3; 2016- present

Recent GPA 4.28/4.3

* Academic Excellence Award: 1st place among 152 students
* Laboratory: Bio-inspired Robotics Laboratory, Advanced Medical Device Laboratory
* Current Coursework: Automatic control, Python programming, Digital Control System

**National Hsinchu Senior High School (HCHS)**  Hsinchu, Taiwan

* Top 5 Mathematically-gifted student 2013-2016

**Honors & Awards**

* The 1st place among 152 students, Academic Excellence Award 2018
* The 1st place, Taiwan Beatbox Battle championship 2018
* The 3rd place, National Taiwan University System Mechanical Project Competition 2018
* The 3rd place, Shing-Tung Yau Mathematics Award 2015

**Project Experience**

**Mechanical Thrombectomy**  Taipei, Taiwan

* Innovated an irregular surface shape to effectively take out thrombus during 2018- present

a Thrombotic stroke.

* Applying finite element techniques of Abaqus to stimulate the stress distribution   
  after Cylindrical expansion
* Adopting the Shape Memory Effect of a NiTi alloy

**Age Prediction with Blurry Image by Deep Learning** Taipei, Taiwan

* Designed a novel VGG16 Convolutional Neural Network (CNN) model to tackle 2017  
  the low-quality image recognition problem in CCTVs
* Applied Gaussian algorithm to stimulate blurry images and optimized the prediction   
  accuracy by linear regression method
* Enhanced the ability of python programming and became conversant with artificial   
  intelligence

**Extracurricular Activity**

**2018 Taiwan Beatbox Championship (TWBC)** Taipei, Taiwan

* Won the 1st place out of more than 100 contestants in the national competition 2018
* Became the representative of Taiwan to participate the 5th Beatbox Battle World   
  Championship 2018, which is the most prestigious competition in beatbox

**Mechanical Engineering Department Basketball Team Captain** Taipei, Taiwan

* Develop the ability of leadership, organization, and communication 2018- present

**Skills**

**Laboratory Techniques:** Arduino, SolidWorks, Abaqus

**Programming:** Familiarity for Python, MATLAB

**Languages:** Chinese(native), English(fluent), German(basic)