

# Wei-Jer Chang

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## Education

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**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: 1<sup>st</sup> 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

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

## Project Experience

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**Mechanical Blot Clot Retriever** 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

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

- Won the 1<sup>st</sup> place out of more than 100 contestants in the national competition 2018
- Became the representative of Taiwan to participate the 5<sup>th</sup> 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

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

**Programming:** Familiarity for Python, MATLAB

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