Tsai, Tsung-Han

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EDUCATION

Sep. 2014 – Jun. 2016 National Taiwan University Taipei, Taiwan

- M.A.Eng. in Biomedical Electronics and Bioinformatics
- GPA: 4.01/4.30 (average over all)

Sep. 2010 – Jun. 2014 National Taipei University of Technology Taipei, Taiwan

- B.S. in Electronic Engineering
- Grades: 89.23/100 (average over all)
- Graduated from the electronic department in the honor of the top-rated prize

Sep. 2007 – Jun. 2010 National Tainan Industrial High School (NTIHS) Tainan, Taiwan

- Specialized in Electronic Engineering Department
- Graduated from high school in the honor of the top-rated prize

WORKING EXPERIENCES

Jun. 2015 – Present Project Assistant and Researcher at TaiDoc Technology Corporation

- Conducting biomedical signal processing and sleep analysis
- Designing algorithm to analyze sleep disorder

Sep. 2010 – Present Tutor for Electrics and Digital Logic (subjects in industrial high school)

- Practicing teaching skills and the ability to express
- Customizing teaching materials for individuals

Mar. 2015 –Jul. 2015 Chief Coordinator of 2015 Biomedical Electronics and Bioinformatics Camp & Biomedical Innovation Hackathon, NTU

- Main Theme: Internet of Things for Healthcare
- Conducted the 1st biomedical Hackathon in Taiwan for 120 participants with different backgrounds across Taiwan
- Collaborated with Delta Electronic, Yonglin Foundation, Garmin, Intel and Brain Rhythm Inc.

Feb. 2015 – Jun. 2015 Teaching Assistant for Biomedical Innovation and Commercialization, NTU

- Arranged lectures and organized class activities
- Tracked down the latest biomedical development news and analyzed the trend
- Provided necessary mentorship for students to complete the biomedical projects
- Facilitated the student discussions

Sep. 2011 – Jun. 2014 Teaching Assistant for Calculus, NTUT

- Guided students through the discussion on calculus questions
- Design calculus exercises for students

Feb. 2009 – Dec. 2009 Electronic Skill Training Workshop, NTIHS

- School delegate for the National Skill Competition, 2009
- Enhanced skills in electronic circuit design, digital logic design, and programing
- Completed a hardware circuit design by using Altium Designer and PCB engraving machine
- Using VHDL to design the hardware circuits

AWARDS

Apr. 2015-Aug. 2015 **TiC100 Smart City & IoT Competition** ***First Place Award***

- Analyzed the EEG signals to connect to sleep stages
- Completed the whole business model and service

Feb. 2014-May 2014 **FITI Innovation & Startups Competition** ***Top40***

- Dr. Me -Self-tracking app for heart

May 2014 **The 8th Golden Hand Prize of Electronic And Information Engineering Department, NTUT** ***Honorable Mention***

- Practiced signal processing and machine learning
- Built a system to detect fall accidents for the aged

Feb. 2013-Jun. 2013 **National Business Plan Competition, MOST** ***Third Place Award***

- Developed a business plan for the fall detection project
- Made a creative and attractive product demo film clip for the project

May 2013 **Project Competition, NTUT** ***First Place Award***

- Graduation Project: a system to detect fall accidents for the aged
- Practiced signal processing and machine learning

Feb. 2010-Jun. 2010 **The 7th Intelligent Ironman Creative Contest, MOE** ***Third Place Award***

May 2010 **The 40th National Skill Competition (Robot)** ***Third Place Award***

- School Delegate for the impromptu programming contest
- Used the components in LabVIEW to design electronic boards to apply to the robots

May 2009 **The 39th National Skill Competition (Industrial Electronics)** ***Fourth Place Award***

- School Delegate for the impromptu programming contest
- Designed the circuit diagram in Altium Designer and build a simulator for g-sensor