Wen-Ya **Lin**

PROGRAMMING · IMAGE PROCESSING · ARTIFICIAL INTELLIGENCE

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Education

National Taiwan University   *Taipei City, Taiwan*
M.S. IN MECHANICAL ENGINEERING   *Sep 2018 – Present*
- Overall GPA: 4.0/4.3
- Advisor: Prof. Hong-Tsu Young
- Master's Thesis: Applying Deep Learning and Lung-RADS to Pulmonary Nodules CADx System

National Taiwan University   *Taipei City, Taiwan*
B.S. IN MECHANICAL ENGINEERING   *Sep 2014 – Jun 2018*
- Senior GPA: 4.1/4.3 (Ranking 31/189)
- Junior GPA: 3.9/4.3 (Ranking 41/159)

Interdisciplinary Courses
COMPUTER SCIENCE RELATED COURSES
- Basic: Data Structure and Programming, The Design and Analysis of Algorithms, Discrete Mathematics, Computer Programming Language
- Imaging: Digital Image Processing, Computer Vision, Medical Image Processing
- Others: Introduction to Digital Speech Processing, Introduction to Machine Learning and Deep Learning with Python

Skills

Programming & Tools   C, C++, Python, Web (JavaScript, HTML, CSS), MATLAB, Git, LaTeX
Engineering Software   LabVIEW (CLAD certificate), AutoCAD, Creo Parametric, Mathematica
Language   English (TOEIC 950), Japanese (JLPT N3), Mandarin (Mother tongue)

Selected Projects   Click on the Title for Detailed Explanation

Google-Patents-Scraper   *Python*
AUTOMATICALLY DOWNLOAD ALL PDF FILES OF SEARCHING RESULTS & THEIR PATENT FAMILIES ON GOOGLE PATENTS.

Level-Set-Visualizer   *C++*
VISUALIZE IMAGE SEGMENTATION BASED ON LEVEL SET METHOD.

Webaholic-Reminder   *JavaScript, HTML, CSS*
A CHROME EXTENSION REMIND YOU TO WORK WHEN YOU SPEND TOO MUCH TIME ON SPECIFIC SITES.

Dicom-Viewer   *Python*
AN APPLICATION WHICH COULD DISPLAY AND EDIT 2D/3D DICOM IMAGE.

Spoken-Digit Recognizer   *Python*
BUILD ML MODEL WITH KERAS TO RECOGNIZE CHINESE/ENGLISH SPOKEN-DIGIT.

Bachelor-School-Projects
SOME PROJECTS DONE IN BACHELOR. (PNEUMATIC PATH FOLLOWING CAR, CLIMBING ROBOT, MICRO-FLUID CONTROL, BLADELESS FAN, TREBUCHET)

Work Experience

Saturn Imaging   *Taipei City, Taiwan*
SOFTWARE ENGINEER (INTERN)   *Aug 2018 – Present*
- Medical image processing algorithm's R&D.

IPPLUS Patent Office
New Taipei City, Taiwan

Patent Engineer (Intern)
Jan 2018 – Aug 2018
- Patent searching & analysis.
- Patent portfolio analysis.

Li Peng Precise Machinery Co, Ltd
New Taipei City, Taiwan

Summer Intern
Jul 2017 – Aug 2017
- Machine testing & assembling.
- Workpieces processing (using grinding machine, milling machine…etc.).

Fong Kee International Machinery Co., Ltd.
Tainan City, Taiwan

Customer Service Engineer (Winter Intern)
Feb 2017 – Feb 2017
- Studied related knowledge of the hydraulic power system on company's Extrusion Molding Machine.
- Organized above as teaching material for non-engineering background staff members.

Extracurricular Activity

LOX (Indie Band)

Guitarist
- Composed multiple songs & participated lots of performances
- Crack - Click for youtube demo of our song.

Club @ NTU
- NTU Service Learning In Northern Thailand Club
- NTU Melody Lyric Club
- NTU Public Address Team
- NTU-Cocktail Club