

Wen-Ya Lin

PROGRAMMING · IMAGE PROCESSING · ARTIFICIAL INTELLIGENCE

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Education

National Taiwan University

M.S. IN MECHANICAL ENGINEERING

- Research Area: [Image Processing, AI Application](#)
- Overall GPA: 4.0/4.3
- Master's Thesis: Applying Deep Learning and Lung-RADS to Pulmonary Nodules CADx System

Taipei City, Taiwan

Sep 2018 – Present

National Taiwan University

B.S. IN MECHANICAL ENGINEERING

- Senior GPA: 4.1/4.3 (Ranking 31/189)
- Junior GPA: 3.9/4.3 (Ranking 41/159)

Taipei City, Taiwan

Sep 2014 – Jun 2018

Related 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

ELECTRONIC RELATED COURSES

- Semiconductor Engineering, Applied Electronics (with Laboratory Session), Electrical Engineering Fundamentals

Programming Competition

TSMC x Microsoft Careerhack (Hackathon)

2ND PLACE, AUTOMATED OPTICAL INSPECTION CATEGORY

Only 24 in 850 competitors got ranked after two-stage competition.

Taipei City, Taiwan

Feb 2020

Skills

Language [English \(TOEIC 950\)](#) , [Japanese \(JLPT N3\)](#), [Mandarin \(Mother tongue\)](#)

Programming & Tools [C](#), [C++](#), [Python](#), [JavaScript](#), [HTML](#), [CSS](#), [MATLAB](#), [Git](#), [LaTeX](#)

Engineering Software [LabVIEW](#) (CLAD certificate), [AutoCAD](#), [Creo Parametric](#), [Mathematica](#)

Selected Projects

Click on the Title for Detailed Explanation

Google-Patents-Scraper

AUTOMATICALLY DOWNLOAD ALL PDF FILES OF SEARCHING RESULTS & THEIR PATENT FAMILIES ON GOOGLE PATENTS.

Python

Level-Set-Visualizer

VISUALIZE IMAGE SEGMENTATION BASED ON LEVEL SET METHOD.

C++

Webaholic-Reminder

A CHROME EXTENSION REMIND YOU TO WORK WHEN YOU SPEND TOO MUCH TIME ON SPECIFIC SITES.

JavaScript, HTML, CSS

Dicom-Viewer

AN APPLICATION WHICH COULD DISPLAY AND EDIT 2D/3D DICOM IMAGE.

Python

Spoken-Digit Recognizer

BUILD ML MODEL WITH KERAS TO RECOGNIZE CHINESE/ENGLISH SPOKEN-DIGIT.

Python

Bachelor-School-Projects

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

Work Experience

Saturn Imaging

SOFTWARE ENGINEER (INTERN)

- Medical image processing algorithm's R&D.

Taipei City, Taiwan

Aug 2018 – Present

IPPLUS Patent Office

PATENT ENGINEER (INTERN)

- Patent searching & analysis.
- Patent portfolio analysis.

New Taipei City, Taiwan

Jan 2018 – Aug 2018

Li Peng Precise Machinery Co, Ltd

SUMMER INTERN

- Machine testing & assembling.
- Workpieces processing (using grinding machine, milling machine...etc.).

New Taipei City, Taiwan

Jul 2017 – Aug 2017

Fong Kee International Machinery Co., Ltd.

CUSTOMER SERVICE ENGINEER (WINTER INTERN)

- 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.

Tainan City, Taiwan

Feb 2017 – Feb 2017

Extracurricular Activity

Japan-Asia Youth Exchange Program in Science

PARTICIPANT

An experiential exchange program held by Kobe University.

Kobe, Japan

Jul 2018 - Jul 2018

Conversation & Culture International Program

PARTICIPANT

An international experiential program held by UC Irvine.

California, USA

Jun 2015 – Jul 2015

LOX (Indie Band)

GUITARIST

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

Club @ NTU

CORE MEMBER / MEMBER

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