

De Yu Lian

Phone: (886) 989 869 198 | Email: r10943170@ntu.edu.tw



Education

National Taiwan University Graduate Institute of Electronics Engineering

Master Program

Taipei City, Taiwan (R.O.C)

September 2021 – Now

Yuan Ze University Department of Electrical Engineering

Bachelor of Science in Electrical Engineering

Taoyuan City, Taiwan (R.O.C)

September 2016 – September 2021

Work Experience

Cadence Design Systems, Inc

R&D Intern

Hsinchu, Taiwan (R.O.C)

July 2022 – September 2022

SEMI (Semiconductor Equipment and Materials International)

Campus Ambassador

Taipei City, Taiwan (R.O.C)

October 2019 – September 2020

- for supporting SEMI Workforce Development Program as campus ambassador.

Went to Fujian Normal University for an Exchange Visit

Behalf of the College

Taoyuan City, Taiwan (R.O.C)

September 2019

- As a behalf of the college, went to Fujian Normal University for academic exchange visits.

Dynamic Computing Technology, Foxconn Technology Group

Intern

Taoyuan City, Taiwan (R.O.C)

July 2019 – August 2019

- Participate in the establishment of expert system development

Competition and Thematic Experience

Reliable and Realizable RC Reduction

Team Leader

Taipei City, Taiwan (R.O.C)

January 2022 - Now

- Nowadays the operation frequency approaches in the gigahertz range, and thus the inductance effect has become more important to the circuit performance. It's imperative to reduce the RC network while maintaining accuracy.
- We propose a high-precision reduction method for the ports in the circuit based on TICER.

Ocean Climate CubeSat Constellation

Member

Taipei City, Taiwan (R.O.C)

January 2022 - Now

- Design the Optics subsystem of the CubeSat project.

Gauss-Seidel Iteration Machine (GSIM) propose by MediaTek

Team Leader

Taipei City, Taiwan (R.O.C)

January 2022

- Led the team solve the Gauss-Seidel Iteration Machine circuit developed by MediaTek in the NTU CVSD final project
- Complete a chip design from RTL architecture design to synthesis, verification, placing, routing and DRC checking.

Efficient Inductance Extraction Based on Equivalence Theorem

Member

Taipei City, Taiwan (R.O.C)

September 2021- December 2021

- Our experiments have shown the low error to the golden reference and the great speed up with the decomposed inductance matrix when using the iterative method to solve the linear system.

TSMC IC Layout Contest

Team Leader

Taipei City, Taiwan (R.O.C)

June 2019

- Led the laboratory team and participate in the competition as a project representative.

Graduation Theme Competition - IoT Smart Home System

Team Leader

Taoyuan City, Taiwan (R.O.C)

March 2019

- the Third place in graduation thematic competition
- Led the laboratory team and use Arduino and Raspberry Pi on iOS apps to develop IoT smart home systems.

ActInSpace held by CNES and NSPO – Taiwan

Team Leader

Taipei City, Taiwan (R.O.C)

March 2018

- **Led the team and get the Third place in Taiwan regional competition**
- Designed an aerial vehicle for airborne launch and develop the application of this aerial vehicle.
- Led a five people team and worked as project representative.

Application Research of Pressure Detection System in Medical Auxiliary Nursing

Member

Taipei City, Taiwan (R.O.C)

October 2017

- Develop a set of medical assistance system, combined with data statistics database, establish a smart medical internet of things.
- Use the real-time monitoring system for automatic observation and remind the caregiver of the patient's health status when appropriate.

Technical Skills

- **Programming Language:** C/C++, MATLAB, Verilog, Python
- **CAD Software:** Solidworks, Spice
- **Tools:** Vivado, Xilinx FPGA, Cadence ncVerilog, Synopsys Design Compiler
- **Language:** English (conversant), Chinese (Native)