

MIN-YAN HSIEH

Electrical Engineer & Software Engineer with 2+ years experience

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Major








- RISCv and ARM-Based CPU
- ESL and DFT Design
- Mix-Signal Circuit Design
- GPU and AI Accelerator Design
- AMBA and Bus Protocol
- Machine Learning, Deep Learning
- Compiler Design
- Quantitative Trading
- Computer Vision and Image Processing

Education

- Sep 2023 - January 2024
National Yang Ming Chiao Tung University
 - Teaching Assistant in Phased-Locked Loops Courses
- Sep 2022 - August 2024
National Yang Ming Chiao Tung University
 - Master Degree in Electrical and Computer Engineering
 - Advised by Prof. Chung-Chih Hung
- Sep 2019 - June 2022
National Yang Ming Chiao Tung University
 - Bachelor's Degree in Electrical and Computer Engineering
 - Graduate within only 3 years



Experience

- **Silicon Engineer & Software Engineer, Taiwan Electronic System Design Automation(TESDA)** June 2023 - Present 
UVM, Test Plan, Design Verification, Computer Architecture, Compiler Design, RISCv, DLA, GPU, AHB, AXI, PCIe, MIPI, DDR5
 - ESL and DFT Design, RISCv CPU and SoC Design Verification
 - NPU, APU and Deep Learning Accelerator(DLA) Development and Verification
 - AMBA Protocol and SPI, UART, I2C, JTAG, PCIe, MIPI, UCIe and DDR5
 - Core, Cache, Fabric, Memory, Codec
- **Project Manager(PM), Google Developer Student Club(GDSC) Core Team**, September 2023 - June 2024 
HTML, CSS, Javascript, jQuery, PHP, .NET, Database, Algorithm, Machine Learning, Deep Learning
 - A website that helps us to optimize the school timetable and maximize the general courses we may get
 - Use AI to generate a customized and suitable timetable for every student
- **World Quant Brain, WorldQuant Research Consultant**, September 2023 - Present 
Quantization Trading, Alpha Strategy, Automated trading, High Frequency Trading
 - Develop Diverse Alpha Analyze, and Optimize for Performance
 - WorldQuant Research Consultant for Advanced Alpha analysis
- **All Digital Phase-Locked Loop Program Research Assistant, Novatek Microelectronics Corp.** Sep 2022 - August 2024 
Matlab, Simulink, Virtuoso, Tapeout, ADC, PLL, PCB Design, Digital Signal Processing(DSP), Delta-Sigma Modulator(DSM)
 - Research about fractional Digital Phase-Locked Loop
 - Low power and low noise ADPLL applied to RF systems
- **Computer Vision Development Intern, Industrial Technology Research Institute(ITRI)** May 2023 - June 2023 
Python, Pytorch, Tensorflow, Machine Learning, Deep Learning
 - Use Deep Learning technique to realize object detection
 - Image recognition to fulfill the unmanned store
- **Special Topics in Analog Mixed-Signal Circuit Design, MediaTek** September 2022 - January 2023 
HSPICE, Matlab, Virtuoso, ADC, SerDes, PLL, CTLE, CDR
 - Flash ADC, SAR ADC, Delta-Sigma ADC, Pipelined ADC Design
 - CTLE, RX DFE, CDR, Driver, Serializer, Multiplexer, TX FIR Design
 - PLL and Ring Oscillator Design
- **Summer Internship Program in IC Design, RICHTEK Technology** July 2022 - August 2022 
HSPICE, Finesim, Virtuoso, Spectre, Oscilloscope, Hall Transducer
 - Two-stage OP, Folded-cascode OP, LDO analysis and simulation
 - Oscillator and bandgap reference circuit analysis
 - IC Measurement