Shu-Yu (Stanley) Lin

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EDUCATION

National Taiwan University Sep 2018 - present

Bachelor of Science in Electrical Engineering GPA: 3.64/4.3**National Taiwan University** Sep 2019 - present

Bachelor of Arts in Political Science (Double major) GPA: 4.3/4.3

Work Experience

Field Application Engineer Intern

SW Intern Sep 2022 - present

MIH Open EV Alliance Taipei, Taiwan

Jul 2021 - Jul 2022

Jul 2020 - Sep 2020 Taipei, Taiwan

Taipei, Taiwan

Taipei, Taiwan

2021 Spring GitHub Link

Sep 2020 - Feb 2021

Taipei, Taiwan

Hardware Platform Application Engineer Intern Intel Corporation

• Contributor of Highly Efficient Automatic PCIe Validation Tool Kit, Responsible for Linux test environment setup by Shell Script and Python, providing OS image by Clonezilla for teams worldwide, Using Python to parse error log of

100,000+ lines within seconds for further usage. Enact code release and validation flow for the project. • Published multiple SOPs including Tool Kit testing environment set-up and instructions, OS image create and restore.

Arrow Electronics • RF team: RF circuit debug, impedance adjustment, Network analyzer manipulation, Circuit soldering

• FPGA team: Writing Verilog and analyze the waveform provided by customers

Research

Undergraduate Researcher Sep 2021 - present

Media IC and System Lab(Advisor: Professor Shao-Yi Chien) • Topic: Federated Learning for Person Re-Identification

• Objective: jointly optimize model for seen and unseen domain

Undergraduate Researcher

MicroSystem Research Laboratory (Advisor: Professor Tzi-Dar Chiueh)

• Training quantized convolution neural network using Pytorch

• Design pipelined multi-input format convolution MAC circuit

PROJECTS

Bikesla 2021 Fall Embedded System Labs final project GitHub Link

• Made a device installed on a bicycle and developed iPadOS App to control the device via Bluetooth.

• STM32 MbedOS programming, Swift programming for iPadOS App

• C++, C, Swift

SWE Explore 2021 Fall Database Management final project GitHub Link

• Full stack project for software engineer job seeker to check salaries, locations and other features worldwide.

• React.js, Django REST framework, PostgreSQL

Pipelined RISC-V CPU Design

Digital System Design final project • Designed 5-stage pipelined RISC-V processor with instruction cache and data cache

• Implemented branch prediction mechanism, L2 cache and compressed instructions

• Verilog

ACHIEVEMENTS

Presidential Award This award is given each semester to students ranking within the top 5% of their class 2019

TECHNICAL SKILLS

Programming languages: C++, Python, Go, MATLAB, Verilog Web Technologies: Node.js, React.js, Django, GraphQL ML/AI: Pytorch, Numpy, Pandas, Matplotlib Miscellaneous: MySQL, postgreSQL, Git, Shell, LATEX

Relevant Coursework

Electrical Engineering: Integrated Circuit Design, Computer Architecture, Digital System Design, Solid State Electronics, Embedded System Lab, Biomedical Engineering Lab, Electronic Design Automation

Computer Science: Algorithms, Data Structure, Machine Learning, Multimedia Security, Database Management, Computer Networks, Information Security, Web Programming

Mathematics: Linear Algebra, Differential Equation, Discrete Mathematics, Probability and Statistics, Signals and Systems