## **SUWEI YANG**

## **SOFTWARE/FIRMWARE**

	Github: https://github.com/suv Military obligat	
Experiences	Work University of Utah School of Computing Title: Graduate Research	08.2023-present Deep learning on Partial Differential Equations (PDE)  ● Fractional Fourier Transform on PDE
	Silicon Motion Inc. Title: SSD firmware engineer	<ul> <li>05.2020-11.2022</li> <li>Participated product and project:</li> <li>A. Kingston NV2 (PCIE) B. SM2259XT3 verification C. Crucial BX500 (SATA)</li> <li>Program/Erase fails verification -A</li> <li>Read/Raid/Debug flow presentation -A</li> <li>RAID/MPISP (boot code) implementation and verification on FPGA -B</li> <li>Turbo RAID implementation and verification -C (rescue retention data up to 6 planes)</li> <li>RDT maintenance and development (verify NAND quality) -C</li> </ul>
	Published papers Conference: 2020 ACM/SIGAPP Symposium On-Applied Computing 1st author	09.2017-08.2019  Topic: GPU Swap-aware Scheduler virtual memory management for GPU applications (Master thesis)  ■ Improve 16% performance in real case
	Journal: IEEE System Journal 3 <sup>st</sup> author	Topic: Energy-Efficient Task Offloading for Time-sensitive Application in Fog Computing  • Experiments and debug.
	Teaching Assistant Department of Electrical Engineering, NTUST	03.2018-06 2018  Subject: Embedded System software design  ■ Design, assess, and grade students' exams and projects.
	Contest OPEN DATA innovated application contest: Top 10%	03.2017-06.2017  LINE robot for detecting fake news (Topic: 詐騙奧特)  ■ Mandarin segmentation, dictionary building, and similarity function
	Internship Company: Action	09.2016-01.2017  ■ APP design (account system, connection between APP and SQL)
	Bachelor thesis	<ul><li>09.2016-01.2017</li><li>◆ APP design (build Server, APP and communication between them)</li></ul>
Education	Master Degree University of Utah School of computing	01.2023-12.2024 Computer science
	National Taiwan University of Science and Technology	09.2017-03.2020 Electrical engineering - integrated circuits and systems Exchange student (1 semester)-RWTH Aachen University (Germany)
	<b>Bachelor Degree</b> National Taiwan University of Science and Technology	09.2013-06.2017 Electrical engineering
Skills	Software Subjects	C (3-4 years), Python (1-2 years) Real-time operating system, Advanced operating system, Probabilistic machine learning, Computer architecture

GDB, Logic analyzer, UART, JTAG, VS code(for python)

Tools