SHAO-HUNG CHIU

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EDUCATION

Carnegie Mellon University   Pittsburgh, PA
Master of Science in Electrical and Computer Engineering   December 2020
Research Interest: Hardware and Software Systems

National Tsing Hua University   Hsinchu, Taiwan
Bachelor of Electrical Engineering   January 2019
Overall GPA: 4.0/4.3   Major GPA: 4.19/4.3
Relevant Courses: Computer Architecture, Operating Systems, Algorithms, Digital Systems Design, Microprocessor Systems

SKILLS

Language	English (TOEFL 105), Chinese (Native)
Programming Languages	C, Python, MATLAB
Tools	Verilog, Linux OS

WORK EXPERIENCE

ASPEED Technology Inc.   Hsinchu, Taiwan
Intern   July 2018 - August 2018

● Researched on Super Resolution algorithms within recent 2 years with low computation complexity and assisted ASPEED to evaluate potential IP usage
● Introduced Efficient Inference Engine Design to illustrate domain-specific algorithms and architecture by giving a talk to 30 staffs in ASPEED
● Built machine learning models and clarified analytical tools on several frameworks such as Caffe and Tensorflow for ASPEED's further research

BIIC Lab   Hsinchu, Taiwan
Research Assistant   October 2017 - January 2018

● Utilized machine learning techniques on Human Behavioral Analysis, reaching almost 70 % accuracy on image data
● Performed various feature extraction methods with Python package OpenCV for further analysis and better accuracy

ACADEMIC PROJECTS

Self-Driving Car with Raspberry Pi   Hsinchu, Taiwan
National Tsing Hua University   Spring 2018, Fall 2018

● Developed a lane following algorithm achieving prompt controls up to 6 frames per seconds by utilizing OpenCv and fitting polynomials with Python3.5
● Scheduled entire 2-semester project and led discussion in routine meetings
● Coordinated other 4 teammates' work into 1 stable system involving XBEE, MobileNet, lane following and positioning