Hanzhang Liu

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UNDERGRADUATE, COMMUNICATION ENGINEERING, UESTC

EDUCATION

University of Electronic Science and Technology of China (UESTC), Chengdu, China
B.E., Communication Engineering (Yingcai Honors College)   *Sept. 17 - June 21 (Expected)*
GPA: 3.98/4.0, Rank: 10/178
Course Highlights: Linear Algebra (96), Mathematical Analysis II (94), University Physics II (92), Signals and Systems (96), Digital Design and MCU System (89), Digital Signal Processing (93)

AWARDS

University Scholarship 2018-19, UESTC
University Scholarship 2017-18, UESTC

COURSE PROJECTS

Object Detection
Supervisor : Prof. Wen Li   *Mar. 2020*

- Learn object detection algorithms and implement YOLOv3 on COCO dataset.

Dual-frequency Ultrasound Gesture Recognition System
Course : Digital Signal Processing | Supervisor : Prof. Chang Wu   *Dec. 2019*

- Design a real-time audio processing system that extract feature sequences from ultrasound.
- Classify gestures based on kNN.
- Demonstrate the system on a laptop with a sokoban demo.

Micro Control Unit Design
Course : Digital Design and MCU System | Supervisor : Prof. Jianhao Hu May 2019 - July 2019

- Develop a 6 stage pipeline, superscalar MCU that performs sorting and matrix multiplication algorithm on Xilinx A7.
- Design a vectorized sorting algorithm that is suitable for superscalar microarchitecture.
- Create a compact instruction set.
- Design datapath and control unit and cope with hazards.

COMPUTER SKILLS

Languages: C, C++, Python, MATLAB, Verilog, Assembly (MIPS)
Tools and Frameworks: PyTorch, Git