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Jiayi Feng

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Education

Master of Embedded System, *KTH Royal Institute of Technology* 2023
Bachelor of Electrical and Electronic Engineering, *University of Glasgow* June 2020
Bachelor of Electronic and Information Engineering, *University of Electronic Science and Technology of China* June 2020
Exchange study of Electrical Engineering, *National Research University of Electronic Technology (MIET)* August 2018

Skills

Tools and Languages Python, C, MATLAB, Erlang, Ada, Multisim, LTSpice, Pspice
Interests Novel reading, PC games, history, Cheat Engine
Communication English(Complete professional level), Chinese (native level)

Technical Experience

A Multiple Activation Embedding Model for Continuous Features in Deep Learning — **April 2023**

Prof. Zhenliang Ma, KTH Royal Institute of Technology — *Stockholm, Sweden*

- Research Assistant sponsored by Digital Future research centre, and division of Transport Planning, KTH
- Anaconda, Ubuntu VM, server, Linux, PyTorch
- Neural Language Processing (NLP), continuous input feature representation, innovative embedding (inspired by one-hot embedding)
- MLP, ResNet, 8 percent improvement, ICLR.

Master thesis | EMONAS-BOO on embedded system devices — **March 2022**

Prof. Masoumeh Ebrahimi, KTH Royal Institute of Technology — *Stockholm, Sweden*

- Anaconda, local host machine, Google Cloud, AWS, Linux, PyTorch
- Neural Architecture Search (NAS) and Evolutionary Algorithm (EA) used for automated evaluation, selection, generation, and iteration of CNN models
- multi-objective optimization for neural network performance tradeoff, BOO (Binary One optimization) as innovative optimization objectives
- CNN for image processing, implemented on embedded systems devices, customized DNN accelerator.

Embedded Systems: Real-Time Operating System — **Autumn 2020**

Prof. Ingo Sander, KTH Royal Institute of Technology — *Stockholm, Sweden*

- Oracle, VM, Ubuntu
- Semaphore, Scheduling, Multi-processor execution.
- Communication by Handshakes, Cruise control in C.

Bachelor thesis | A Gas Leakage Detection and Accident Prevention System — **June 2020**

Prof. Lianping Hou, University of Glasgow — *Glasgow, Scotland, UK*

- Software skill set: Electrical circuit design, Embedded System Programming in C.
- Hardware: Arduino, Gas sensor MQ2, Passive buzzer, Stepper motor SG90, GSM module SIM900A.

Activities

UESTC Excellent Graduate Scholarship Fall 2020
Group leader of Orientation for Students from UoG Confucius Institute Summer 2019
Team member of the 9th Huawei Financial Elite Challenge Spring 2019
Exam-failed Insurance of Benevolence Supermarket of UESTC Youth Association Spring 2017
UESTC Model Scholarship Autumn 2016