

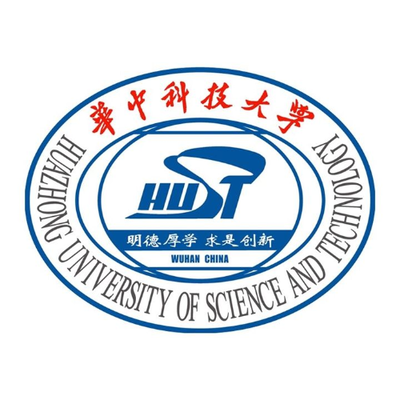
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Fengbo wang(王锋波)

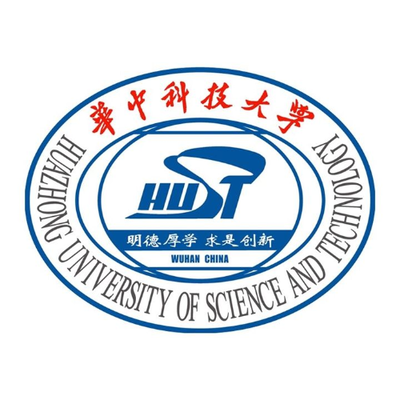
Education

[[](https://www.linkedin.com/school/11182/?legacySchoolId=11182)](https://www.linkedin.com/school/11182/?legacySchoolId=11182)

[Huazhong University of Science and Technology](https://www.linkedin.com/school/11182/?legacySchoolId=11182)

[Master of Computer Application](https://www.linkedin.com/school/11182/?legacySchoolId=11182)

[1997 – 2000](https://www.linkedin.com/school/11182/?legacySchoolId=11182)

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[Huazhong University of Science and Technology](https://www.linkedin.com/school/11182/?legacySchoolId=11182)

[bachelor of Thermal Engine](https://www.linkedin.com/school/11182/?legacySchoolId=11182)

[1993 – 1997](https://www.linkedin.com/school/11182/?legacySchoolId=11182)

Work experience

* 2016.1- present xxx tech. company

linux engineer(5-6 sw engineers)

* 2016.1-2017.5 (networking-device c++/linux/kernel）

1 Responsible for software development of low-delay wireless communication protocol and application.

The supplier would not provide source code of protocol modules , so we need write the whole protocol function including kernel mode part and user mode part to make the kernel module of protocol run on our linux kernel version.

lines of code: protocol 17000(c language) application 12000(c/c++ language)

2 Responsible for software development of vehicle data gathering server(c++ language)

The server gathers data from vehices(through wireless) and stores data in hbase for hadoop processing

lines of code: 11000

3 other application such as device upgrade, logging function(c language)

* 2017.6-2018.1 self-driving system(c/c++ language on linux)

1 responsible for designing/development and setup/maintenance of data gathering system on the testing car(moile data center), including vehicle retrofitting.

2 designing of replaying of the gathered data

3 responsible for development of control software, including data gathering and replaying

4 debugging and correction of system crash problem

5 writing patents

* 2018.1-present(networking-device c/linux）

Responsible for software development of the same wireless Vehicle communication protocol.

1 rewriting the driver of communication device(wireless NIC) (c language on linux)

2 providing sdk to clients

3 writing patents and other works

### [[Sky Light Holdings Limited](https://www.linkedin.com/company/10046763/)Sky Light Holdings Limited](https://www.linkedin.com/company/10046763/)

* 2014.9-2015.12 (networking-camera c++/linux)

linux software team leader and architect(11-12 sw engineers)

responsible for ambarella A5S/S2L based networking camera and battery-powered-low-power networking camera、 camera-assisted gate-lock, etc.

1 analysing standard specification of IP camera: PSIA/openhome interface/802.11 document, and designing the function and interface according them

2 communicating with customers about requirements

3 communicating with suppliers about solutions

4 communicating with cloud server team and client application team about requirements and solutions to compose a whole monitoring system

5 writing requirements and designing documents, and manager assigning tasks to engineers according the designing and promoting development activity

6 reviewing source code, solving problem from testing department, writing patents, etc.

### greaty-tech company

* 2012.5-2014.9 (networking device c/linux/kernel)

linux software team leader and architect (5-6 sw engineers)

repsonsible for software of following XGE product:

user-based and service-based network flow controlling device

supporting network-flow logging

supporting L2/VLAN/L3-10GE switch

FPGA+linux based

1 writing architecture documents to guide the development and assigning tasks, including...

Hardware(NIC/switch) driver, NF/session management and flow controlling, nat/alg, dpi, L2/VLAN/L3(policy routing and Load balance) forwarding, configuration/local IP, snmp, logging and reportting

2 emphasis on following goals: improving system's performance、 reliability/quality and development productivity

2.1 linux NIC driver debug(PCIE NIC and SWITCH) and problem correction

such as PCIE register writing problem

2.2 testing of linux kernel stability, including panic problem and kernel death problem, debugging correction

such as kernel memory leak, kernel buffer overflow, kernel deadlock

2.3 performance improvements of packet processing module(l2/l3 switch) in linux kernel by many methods including,

multi-core

writing rules to guide the porting

reducing packet dropping

changing register accessing from register-IO to DMA(Increasing throughput by 60%)

2.4 daily auto building/testing of software version including scripts and self-developed tools, and it making the sw development process agile, improving the quality and productivity of software dev.

2.5 writing auto testing tools which can simulate many user of kinds of applications(such as QQ/skype/MSN) in the real internet world to replace the old expensive and deficient IXIA testing devices, especailly for aging testing of the device, and the goal of quality and productivity and cost saving achieved.

2.6 enhancing remote debugging

2.7 testing and releasing of daily version, including stress testing and aging testing

Achievements: The firewall running on CMCC network raised only one functional bug.

* Huawei Technologies

2005.12 – 2012.5

software engineer and standard solution researcher (c/linux/vxworks)

1 Wimax access gateway development: user access management and network flow control

2 research of LTE network flow control technology (PCC)

3 IMS(VoIP) system cost reduction for CMCC:

3.1 developing IMS(VoIP) on linux, and the system using p2p(DHT) tehnology to build a large scale distributed system(with high throughput and low maintenance cost).

3.2 analysing benefits of cloud platform(virtualization environments) deployments for IMS

3.3 testing IMS system on virtualized platform

4 writing patents

* UTstarcom

2003.12–2005.12 software engineer

Develepments of GGSN(3g access Gateway): user access management and network flow controlling

* Huawei Technologies

2000.6-2003.3 software engineer

1 Developmets of BAS(broad access gateway): user access management and forwarding table maintenance

2 ATM PNNI routing protocol software maintaining

3 writing patents

Skills

* proficient in linux including kernel, especially kernel networking subsystem and relative subsystems/features

such as synchronization, concurrency/parallelling, software performance improvements, software debugging on linux

* proficient in networking, including L2/L3 switching, access network, networking device, networking application development
* nearly proficient in linux cloud networking, cloud computing

Following up some linux related technology, such as docker/SDN/dpdk/unikernel...

* nearly proficient in c++ language

Follow up some related technology, such as golang/java/coroutine.

Self evaluation

* very professional in software develeopment because of my software methodology
* proficient in analysis and communication of software requirements
* proficient in analysis and communication of software function implementation
* proficient in software process management
* loving technology analysis, loving communicating requirements and designing