Jiangfeng Hu

Curriculum Vitae

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Research Interests

Design of Linux-based embedded system and local communication network.

Education

2018　B.E. Instruction Technology, Hubei University, China
Specializations: Internet of Things on Education Application
Grade: 30%(7/25)

Publications

2016　李金峰,邹军华,胡江峰.ASP.NET(C#)中通过 GridView 控件对 XML 数据进行管理[J].中国教育技术装备,2016(14):33-34.

Project Experience

06/2019
to 12/2019

Name: RTOS development
Location: Poincaré laboratory, Central Software Institute, HUAWEI
Content: Development of real-time operating system based on Linux kernel for network communication equipment.
MyWork: In the Linux command line working environment, completing the construction of a virtual environment supporting RISC-V; Using shell script to automatically count and tabular output the amount of personal code in a project based on Git management; Testing and maintaining of self-developed features ,contain double cluster, kexec and kdump; Kernel upgrade of operating system on legacy CloudRAN device.
Acquisition: Understanding of Linux architecture and working principle; Mastering application of shell script, Makefile and Git tool; Grasping application of mainstream virtual technology; Learning architecture of 5G communication network.

03/2019
to 05/2019

Name: Modular design of high school mathematics curriculum
Location: ONLYEDU, Shanghai
Content: Completing design of general curriculum and instructional according to actual teaching needs.
Acquisition: Communication skills and tutoring business model.

03/2018 to 07/2018	**Name**: Development of RTU equipment based on MSP430 series **Location**: Requisition of Wuhan Municipal Water Affairs Bureau **Content**: Using RTU equipment to connect to water meters to obtain real-time flow data from various sewage treatment plants in Wuhan. **MyWork**: Communication of RTU and water meter through Embedded RS485 module; Switching from direct communication via GSM / GPRS to transfer by telecommunication cloud via NB network, the main purpose is save energy and reduce network communication costs. **Acquisition**: Application of MSP430F5438A microcontroller; C/C++ Embedded Development; Learning large-scale circuit diagram and hardware welding; Knowing industrial communication protocols such as RS485, RS232 and Narrowband Communication Networks; Setting up a cloud server and developing a Windows desktop program using C#.
09/2017 to 11/2017	**Name**: Self-regulation system of mental health based on Android (depression) **Location**: National College Students Innovation and Entrepreneurship training program **Content**: Open source project FudanNLP (https://code.google.com/archive/p/fudannlp/) and Stanford CoreNLP (https://stanfordnlp.github.io/CoreNLP/) are the foundation, capturing keywords in sentence for analysis of emotional tendency, introducing some methods of psychological measurement to assess mental state. **MyWork**: Convening and managing project teams, establishing research content and technical direction, developing core services using Java. **Acquisition**: Understanding the learning path of NLP and the working principles of HMM and syntax analysis; Enhancing capability of team management.
03/2017 to 05/2017	**Name**: Pattern recognition based on K-Means clustering algorithm **Location**: Dr. Wu Yujia Project Team, Wuhan University **Content**: Using clustering algorithm based on frequent itemsets by capturing physical parameters of unknown things to recognize target. **MyWork**: Integration of original code modules and development of interactive interface using SWT. **Acquisition**: Significantly Enhancing capability of Java development, and starting to be exposed to algorithms about machine learning.

Professional Skills

Program Languages	Development experience of C#, C/C++, Java, python project, SQL statements, and proficient in Linux shell scripts.
Presentation Skills	Usage of circuit diagrams; Welding of physical devices; Development of embedded software; Construction and maintenance of network server; Working in Linux environment.
Languages	Chinese: native language English: CET-6, Fluent reading.