

Zijian Liu | Curriculum Vitae

Personal Information

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I am a chinese junior student in XiangTan University. I love GNU/Linux and open sources. Programming in low-level operating system is the favorite thing in my daily life. I'm familiar with the mechanism about scheduler , thread module and memmory management. In the past three years, I have gained plenty of experiences about the GNU/Linux platform. And I also have good habits in coding style.

Career Applied For

Full-time Employee, C/C++ Software Engineer

Internship Experience

Software engineer, Alibaba Yun Inc internship in 2015

Honors & Awards

Meritorious Winner of Mathematical Contest in Modeling(MCM) 2014

The ability in Programming

Programming Lanuage: C lanuage, Python, MATLAB, *Latex*

Familiar Domain: Linux system research, Image Processing In Computer Vision

Projects

Implement a BP neural network which is based on C

Normally, researchers just learn neural network by Matlab neural network toolbox. However, matlab software is too large to be transplated into others platform and result in slowing network training. Therefore, basing on Matlab Toolbox neural network can not achieve industrialization. The project aimed to build a BP neural network with highly portable C-language program, we used a digital neural network to predict which signal we have inputed into the system. The inputed signal is only human-readable and machine does not have a general sense. The neural network we implemented can do a good job in system identification.

Color Image Dehazing with OpenCV in ARM-platform

To figure out how the paramter influence our dehazing model, we use matlab to check which paramters could help us to get the best result. Matlab is very friendly to do research but we can not get the result in a time which will statisfy ourself. After getting the right model setting, we rewrite the algorithm in C language and base on OpenCV library. Further more, we compile this program what we rewrite in C with cross-compiler tools under x86/Linux platform. Then, we transplant it into ARM-platform.