

Fei Yi-ran

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| EDUCATION | <i>Undergraduate student of Software Engineering, School of Software</i> |
| COMPUTER SKILLS | <i>Languages: C, C++, Python, java, Web coding(javascript, php, html) Platform: Linux(PC), Windows(PC), ARM Linux(ARM embedded system) Skills: Use version control system in developing projects(C,C++,python,java); Familiar with the application layer and developing environment of Linux; Costomize the ARM Linux kernel, filesystem and driers to develop a specific embedded system. Use PID algorithm to control an unmanned system.</i> |
| SUBJECTION GRADE | <i>Major Subjects: C, C++, Data Structure, Operating System, Embedded System GPA: 3.5/5.0 (or 85/100) Scholarship: The 3rd scholarship from SUN YAT-SEN UNIVERSITY</i> |
| MAJOR EXPERIENCE | <p><i>SYSU's Lab opening Project: Self-Control Flying Quadrators</i> Dec 2012 - now Contains 2 different kinds of architectures:</p> <ul style="list-style-type: none">• A 4-axis unmanned quadcopter based on the MultiWii(An open source control project site: https://code.google.com/p/multiwii/ Construct the physical model.(See on my site.) Modify and apply the MultiWii code on an Arduino Chip. Testify the 2-leveled PID control algorithm in MultiWii.• A 4-axis unmanned quadcopter designed from chip level Construct the model based on the circuit diagram designed by teammates. Design and code the remote control system (via Wifi) in an ARM board using ARM Linux and Qt4. <p><i>Moving robot project from BoChuang's Robot Cup:</i> Aug 2012 - Dec 2012 Note: The competition is canceled for some reason. For photos, visit the personal site.</p> <ul style="list-style-type: none">• Moving robot with wheels and human like body controlled by ARM system(Intel's Xscale) Design and construct the architecture of the robot. Design control code to make the robot in both static and dynamic stability, and control it to finish some simple job like grasping, throwing and dancing. <p><i>Hash-based Indexing Database System</i> Aug 2012 - Dec 2012 A concise index system that can construct an index for more than 600,000 in 10-15 Mins.</p> |

- An indexing system
Based on specific hash function and the idea of Bucket-split.
Modify every function to get a shorter running time.
- A searching system
To assure the correction of indexing.

Different RAID arrays testify

Dec 2012

An examination on EMC and Toshiba's bussiness disk array card.

- Between RAIDs:
Contain RAID0, RAID1, RAID1+0, RAID3, RAID5.
Compare the different conditions in cached write and write through based on examination result.
Run the test of 4k random/sequence read/write and 4m random/sequence read/write speed.
- Between SSD and HDD(ATA, FC):
Compare speed between difference kinds of disks and interfaces.

Thanks for reading.