Zhiqiang Xu | Senior software architect

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Birth:1983.11 Age:35

Work as a hacker. Hack as an artist.

SUMMARY

- BA. With 13 years embeded software develop expriences. Including 2yrs on vehicle related projects, 5yrs on mobile phone projects, and 3yrs on robot projects.
- Excellent in C, bash, linux, terminal, git, docker.
- Excellent software design, problem solving and debuging skills.
- Be familiar with Robot Operating System, Router Operating System, RT-thread, and continuous integration systems.
- Be familiar with vi, emacs, elisp, scheme.
- Have 2yrs experience on team management.

PROFESSIONAL EXPERIENCE

Shanghai Yunshen technologies Co., Ltd.   **Shanghai**

Senior System architect   *2018.06 – Present*

Work content: robot development

Main work:

- Sensor development
  - Based on rtthread to develop CAN driver for STM32.
  - Develop ultrasonic sensor for robot, and send infomations on CAN bus.
  - Implement OTA function. Use CAN bus to receive update datas.
- Robot control system
  - Use docker image to package ROS enviroment.
  - Integrate camera driver and CAN adaptor driver in docker image.
  - Write ROS node to connect between drivers and applications.
  - Clone system for factory producing.
  - Router configuration for robot use.
  - Use repo method to manage robot softwares.
- System management
  - Docker registry server.
  - LDAP server.
  - Git, gerrit, and jenkins server.
  - VPN server.
  - QoS configuration on ROS (Router Operating System) for office.

Shanghai clever mrobot technologies Co., Ltd.   **Shanghai**

Senior Embeded Software Engineer   *2016.07 – 2018.05*

Work content: robot development

Main work:

- Android driver development
    - Based on Rockwell 3288 platform. Solving charging issue and stability optimization.
- Robot control system
    - Use ROS (Robot Operating System) to construct control system for robot products.
    - Integrate OpenCV support on TX1.

Shanghai Phicomm. Inc.   Shanghai
Embeded Software Engineer   *2010.06 – 2016.06*

Work content: Mobile phone development

Main work:

- Android Smartphone project
    - Marvell PXA968 platform , sensors , TP and PMIC drivers. Logo file generator.
    - Qualcomm MSM7x27/MSM8x25/MSM8x25Q platform. PMIC module, develop enviroment optimize. Mainly, PMIC module development, geomagnetic debug method optimization, TP fw upgrade method and dual-way charging method based on smb358. Batch review tool for gerrit.
    - Qualcomm MSM8x10/8x12/8x26/8x16/8994/8909 platform. PMIC module, battery charactorization.
- MStar and MTK feature phone project
    - MMI custimization, add SP for customer.
    - Write auto release script.

Shanghai iBingo network technology Co., Ltd.   Shanghai
Embeded software engineer   *2009.10 – 2010.06*

Work content: Develop dynamic theme and screen saver for feature phone (iShow theme system).

Main work:

- Develop dynamic themes for feature phone base on MTK platform.
    - 3X3 style, Ring style theme.
    - Ribbon style screensaver.
    - Dandelion screensaver which can distinction between day and light.
    - Auto release script.
- Optimize downloading efficiency.

Shanghai Dragontec Group   Shanghai
Embeded Software Engineer   *2008.11 – 2009.10*

Work content:Japanese outsourcing software project.

Main work:

- Digital TV develop project from Hitachi.
    - UI implement and bug fixment.
    - Write documentation.
    - Code and test.
- System port from vxworks to Linux. Develop enviroment improvement.
- Openvg port project.
    - Port opencv support to SuperH platform for Hitachi television project.
    - Write unit test cases.

Kyrocera Mita   Oosaka
Java Engineer   *2008.06 – 2008.11*

Work content: Use Java to develop a non-paper work solution for hospital, which is called KMCapture Solution.

Main work:

- Work for implementing Controller, Facade and Storage modules.
- Write documentation.
- Code and test.

Hitachi ICS   Hitachi
Embeded Software Engineer   *2007.05 – 2008.06*

Work content: Work for developing a car audio equipment for Cadillac CTS 08 and 09.
Main work:
- o iPod interface and control system.
- o Parser for getting informations from audio file.
- o Write documentation.

Nanking University Dragontec   **Nanking**
Java Software Engineer   *2006.07 – 2007.05*
Work content:Develop online management system for suntory's vending machines.
Main work:
- o Write database process using sql.
- o Auto release and deployment script.
- o Write unit test cases.
- o Write documentation.

EDUCATIONAL QUALIFICATIONS

Hohai University   **Nanking**
BA of Traffic engineering   *2002.09 – 2006.06*

LANGUAGE SKILLS

English: CET4   *Normal*
Japanese: *Normal*

TECHNICAL SKILLS AND KNOWLEDGES

C: Proficient   **Java**: Low
Objective-C: Learning   **Swift**: Learning
Linux/Unix: Proficient   **Hardware**: Ease soldering
Script: Bash   **Editor**: Emacs/Vim

HOBBIES

Movie: Documentary, Sci-Fi
Reading: Technology, Novell
Sports: Skate Board, F1, Marathon

MISCELLANOUS

- o twip: Add proxy support.
- o ChinaDNS-C: Bug fix and add compile target for tomato.
- o Koreader: Bug fix and compilation speed optimize.
- o battery_analyzer: Use spline to generate battery SOC table.
- o vim_configs: Vim configure used for co-workers.