Liu Chang

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OBJECTIVE Obtain a position in the field of car industry that can maximize my coordination skill, quality assurance, software design, and training experiences.

EXPERIENCE

Senior SW Engineer   2014.4.28 - present
Microsoft
- Porting MS .net micro framework to Nokia mobile phone, based on the yapas framework.
- Got understanding of the porting process
- Enabled the .net to access Internet, especially the Azure Cloud.

Senior SW Engineer   2012.1.4 - 2014.4.25
Nokia
- Accomplished a lot of basic tasks, including: optimized yapas framework and middleware, added some components / features, and fixed bugs, on Nokia mobile phones. All these resulted in a Nokia AA (achievement award, given to less than 10% people);
- More than a developer
    - Launched an integration test project to guard code changes with scheduled tests in CI (continuous integration) system;
    - Provided some lectures about CBD (contract based development) and TDD (test driven development) via practical examples;
    - Improved the auto documentation of source code;
    - Coordinated the developers, testers and UX (user experience) designers for 3 new features.
- Understood the matrix of a larger development team;

Project Manager   2008 - 2011
Elektrobit
- *AUTOSAR Technical Support*: 2011
  Provided pre-sales technical support and turned out to win an order of AUTOSAR base software together with development tools.
- *City Safety (Automotive ECU)*: 2010 - 2011
  Involved to integrate software modules into OSEK OS, including CAN stack, IO driver, bootloader, and XCP; optimized the bootloader from downloading in minutes to within a minute; also coordinated EB experts, customers, IT supports, etc.
- *HMI and ECU trainings*: 2010
  Organized and received 2 trainings about HMI design and OSEK/AUTOSAR.
- *TMT (Test Management Tool)*: 2008 - 2009
  The project was to create a test management tool which provides test planning, test execution and test reporting, with a test library, imported or composed by this tool. My work includes all aspects of the project, such as requirement collection, work flow setup, SW design, code review, coding, testing, and reporting.

Software Engineer   2005 - 2007
Elektrobit
- *TMT (Test Management Tool)*: 2006/04 - 2007/12
  I launched the project and worked as the core developer, also drove the project in agile way.

- *Project Chiron*: 2005/04 - 2006/03
  Testing several smart phones and supported the team with OMA materials. The project validated some Symbian phones.

Software Engineer   2000 - 2002
Several Companies
- *VoIP Fee*: 2002/04 2002/08
  The project developed a GUI application, which is, at the same time, a billing server that handles dozens of IP phone calls. Multi-thread is used to provide good response to the end user and the VoIP gateways as well.
- *Search Engine (front end)*: 2001/02 – 2001/08
  The project makes scalable cluster of full text retrieve servers, and provides load-balance for the search requests from Internet.
- *Image Processing*: 2000/04 - 2000/09
  Designed and implemented an image compression algorithm in C/C++ for embedded device. Developed a pre-processor, as the first step, to recognize vehicle lisence number and human finger-print.

EDUCATION   *Master of Science,* Computer Science, BeiHang University,   2002 - 2005
                 Bachelor of Science, Mathematics, ShanDong University   1996 - 2000

SKILLS   **Programming Languages**: C/C++, Java, Javascript, XML/Html, Makefile, WAF, CSS, Shell, Perl, Python, SQL, Scheme
                 Development Method: Object-Oriented Programming (OOP), Event-Driven Programming, Test-Driven Development (TDD), Design Pattern
                 Operating Systems: Linux, Windows, Nokia OS, OSEK-OS
                 Tools: MS Project, Trac, Git/Gerrit, FTC, Rational Rose, GCC, WindRiver Diab compiler, Make, Vim, MS SQL, SVN, CVSTrac, EB 6100, EB tresos Studio, Lauterbach debugger, EB tresos Inspector.
                 Management: PMP (project management professional), Certificated Scrum Master

PERSONAL   *Nationality*: China
INFO.   *Date of Birth*: 1978.11.22
                 Willing to re-locate: Yes
                 Gender: Male