

HE Jinshou

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More than 10 years software development working experience with semiconductor industry vision application background. Strong C/C++ development and debugging skills. Experience of software design and leading of a team. Passionate about science, with strong technical, business, and interpersonal skills for working in a team and successfully completing a project.

Working Experience

- **ASM Pacific Technology Ltd.** **Hong Kong**
Technical Manager *Jan. 2017–Present*
As a software architect, I am responsible for system architecture design, task breakdown and follow-up, code review. Designed and implemented general AI segmentation system, portability system, event trace system, configurable image capture system, integrated script engine. The related technologies are task scheduling based on dependencies, code generation based on C++ template, design patterns, and code refactor.
- **ASM Pacific Technology Ltd.** **Hong Kong**
Senior Software Engineer *Jan. 2012–2017*
I was responsible for vision software architecture design, implementation and testing for raw solar wafer 3D inspection system. As the key developer, I fixed many software bugs and did performance tuning by profiling, algorithm optimization, caching strategy, thread pool and memory pool. Perform unit test and integration test. Analyze failure case and find solution.
Now I act as a supervisor for ATC vision application team, and also lead a application team in Hong Kong, the rules including requirement analysis, system design, task assignment, review and follow-up.
- **ASM Pacific Technology Ltd.** **Hong Kong**
Software Engineer *Apr. 2008–Jan. 2012*
My roles includes collecting product group requirements, software design, implementation and testing for Post Encapsulation Product (PEP). I developed and enhanced some vision core features including mark inspection, kerf inspection, auto-lighting and auto model alignment. I also participated in the design and development of vision OO platform including alignment module, refactor system, serialization, criteria module developments.
- **Tencent** **ShenZhen**
Software Engineer (Intern) *Feb. 2008–Apr. 2008*
I was responsible to support internationalization and localization for a QQ game in International Product Center (IPC).
- **Ji'nan Yin Hu** **Ji'nan**
Software Engineer (Intern) *Jul. 2005–Sep. 2005*
I was responsible for design and implement the water, electric, gas meter charges software for Department of Finance, Shandong Province. Collect customer requirements, design software architecture, implementation and testing.

Education

Academic Qualifications.....

- **Harbin Institute of Technology** **Shenzhen**
Mphil Control Science and Engineering 2005–2008
- **Shandong University** **Ji'nan**
Beng Industry Automation 2001–2005

Notable Projects.....

- **Masters Project:** *Computer vision based mobile robot attitude and position estimation based on stereo vision*
- **Bachelor Project:** *Fingerprint image enhancement*

Technical and Personal skills

- **Programming Languages:** Proficient in: C, C++, Python, Matlab, Basic
Basic ability with: Assembly, Java, Javascript, C#. I am very interested in Rust recently.
- **OS:** Working environment is Windows, and Linux (Mainly for AI training). I have setup a Raspberry server in home.
- **Certification:** Software Design Engineer (Advanced Programmer) Qualification. CET 4, CET 6 Qualification.
- **General Business Skills:** Presentation skills, Works well in a team.