



# *Chinese American Semiconductor Professional Association (CASPA)*

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## About Intel



Intel, the world leader in silicon innovation, develops technologies, products, and initiatives to continually advance how people work and live. Founded in 1968 to build semiconductor memory products, Intel introduced the world's first microprocessor in 1971.

We are game changers, plain and simple. At Intel, we see the everyday as a bar that continually needs to be raised. Step inside our world and you'll find one brilliant mind after another working together in a spirit of collaboration that is simply contagious

### **New Job Opening:**

**(Location: Shanghai, China)**

1. **Software Architect** (Job Number: 611170/611168)
2. **Sr. Software Engineer**- target for windows middleware experts (Job Number: 610593/610594/610533)
3. **Platform System Debug Sr. Engineer** (Job Number: 610350)
4. **PIV Platform Architect** (Job Number: 611297)

## **NTG (Netbook and Tablet Group) Overview:**

Employees in NTG deliver innovative platforms across computing and communication segments including tablet, netbook and other consumer electronics. Intel's industry leading technology is used to create integrated hardware and software solutions such as processors, chipsets, communication radios, graphics processors, motherboards, and networking components that deliver capabilities from security and manageability to computing performance and energy efficiency. NTG employees are at the forefront of enabling a new era of tablet and netbook that is more integrated into all aspects of our daily lives. NTG is looking for all the talents to support the leading market of notebook and tablet

1. **Software Architect (Job Number: 611170/611168)**

**Job Description:**

NTG is building a compelling and sustainable Tablet solution with great user experience on latest Intel technology. At Software Development and Innovation Center of NTG SSE (Software and Solutions Engineering) of PRC, we look for a lead technical contributor to join us on SW development and innovation for IA based tablet products. The team is in the early forming stage and provides a great opportunity to play a key role in building the organization and capabilities from the ground up. As an architect in the Software Development and Innovation Team, you will work with key customers, independent technology suppliers, marketing, engineering management and architects from multiple disciplines to negotiate, architect, and lead implementation of a wide range of high complexity features and systems, analyze requirements, and define software strategies. You will also work with driver architects, silicon architects to influence the architecture of future silicon products and help software development teams with understanding, scoping, and planning implementation work. You will lead debug of especially difficult problems involving hardware and/or multiple software subsystems, and develop prototypes to evaluate or illustrate new technologies, designs, etc. You will also be responsible for driving continuous improvements in NTG software development processes and product quality and for technical mentoring of other engineers within the software team.

### **Qualifications:**

- Bachelor degree in Computer Engineering, Computer Science, Electrical Engineering, or equivalent.
- Minimum of 10 years developing software drivers and/or embedded firmware plus 2 years of software and/or system architecture experience with complex embedded systems (including high performance GFX and video/audio processing).
- Demonstrated success in designing and leading implementation of complex software architectures to aggressive deadlines and involving multiple teams.
- Must have strong knowledge of Linux/Android internals, drivers and RTOS concepts. Windows embedded experience is a big plus. Experience with leading collaborative SW/driver development is also required.
- Knowledge of IA/PC system architecture and experience with development of consumer based devices such as tablets, mobile phones or set top boxes is highly desirable.
- Technical communication skills will be very important as you document and present complex technical information to inform and influence a variety of internal and external audiences including customers, architects, managers, and developers. The successful candidate should be able to thrive in a fast-paced, startup like environment.

## **2. Sr. Software Engineer- target for windows middleware experts**

**(Job Number: 610593/610594/610533)**

### **Job Description:**

Software engineer to work with a group of talented people on development then bring the components into product-level of quality, performance, reliability and user experience in the following areas:

-Key applications/middleware (e.g. Netflix, Widi, media player, multi-screen support).

-Innovated software to utilize Intel SoC (System on Chip) capabilities to provide not only software-hardware coherence but also exceptional end user experience for Intel tablet products.

In your daily job, you will collaborate with internal/external partners and OEM customers across China and US, to build and deliver competitive software solutions on Windows 8 OS running on Intel Tablet silicon. To put it short, we invite you joining us to work on something nobody else in the industry is doing in Tablet space, we are delivering a range of products that meet a range of customer desires across multiple operating systems!

### **Qualifications:**

Bachelor/ Master/Ph.D degree in Computer Science or Computer Engineering, or proven record of your knowledge/experience in related skills below.

- Good understanding on vertical software stack including operating system, middleware and application layers, familiar with computer architecture.

- Strong analytical and problem solving skills and have the ability to work independently and in teams.
- Excellent communication skills (in both English and Mandarin) and demonstrated ability to communicate at various levels of abstraction (from concept to details).
- Demonstrated the ability and effectiveness of multitasking.
- Good customer orientation and ability to interact with customers and stakeholders from remote sites.
- Good coding and debugging capabilities in C, C++, Java or other programming languages.
- Ability to work on project with very large code base, with experience in software architecture.
- Good understanding on object-oriented programming and COM.
- Experience on cross-compiler development for embedded platform.
- Or experience on Windows 8/Phone/CE/Mobile operating systems.

Some of the following capabilities are preferred:

- Good Knowledge on product and software development life cycles.
- Skills in Visual Studio 2010 (C#), .NET Framework, WPF, Silverlight/Blend, AJAX.
- Experience in multimedia processing.
- Experiences in HTML5 and JavaScript.
- Experiences with MPEG1/2 Systems, MPEG4 systems, 3GPP, 3GPP2 ASF, AVI, RIFF or IP/UDP/RTP mux or demux.
- Experiences with DirectShow/Media Foundation, D3D, GStreamer, OpenMAX, OpenGL, OpenCL.

### 3. Platform System Debug Sr. Engineer (Intel Job Number: 610350)

#### Job Description:

Contribute to tablet PC Platform Integration and Validation (PIV) function group, responsible for the platform sysdebug including the responsibilities of leading the platform sysdebug team to assign the sighting severity & priority and provide the recommendations to PXTs, managing the platform sysdebug processes and indicators, driving the bug's owners to close the bugs per guidelines & criteria, guiding the sysdebug engineers to root cause the bugs and develop the patches as required. Make recommendations on errata disclosure. You need to work very closely with software, hardware and other development teams, and work as technical consultant help validation and debug team members solve any issues during test case development and test execution. You will also lead the efforts to understand and evaluate the trend of the new technologies and the newly introduced features, develop and deliver some new test / debug tools and processes for next generations of platform, to drive the platform sysdebug execution and efficiency.

As a senior sysdebug guy, you will also be required to provide the strategic recommendation to the management team on the sysdebug methodology, and guide the sysdebug engineers on their technical knowledge development.

#### Qualifications:

- Must possess Masters or Bachelor degree in Computer Science and/or Electrical Engineering. 10+ year experience of system development and debug in an architecture, implementation and/or validation role
- Candidate requires an in depth understanding of Intel architecture, micro-architecture, and computer peripherals.
- Exposure to OS (Linux, Windows, Android and etc), hardware development, common interface modules and protocols, such as GPS, 3G/4G, USB, SATA, PCI-E. Must possess programming experience involving C/C++, others scripting language like Java, Perl, Python is essential to this position.
- Experience with existing Intel Architecture like assembly language instructions, virtualization and SSE usage.
- Debug experience on System on Chip involving graphics, video encoder, decoder.
- Knowledge on Graphics/Video driver on Linux like operating systems, USB architecture and device driver and Interrupt processing and sensor integration. Linux Kernel debug experience will be an added advantage.
- Experiences with JTAG based debuggers like Intel In-Target Probe or third-party debuggers
- Experiences with logic and protocol analyzers, past experience on bug management would be needed

- Candidate must possess excellent written and oral communication and team work skills.

#### **4 PIV Platform Architect (Intel Job Number: 611297)**

##### **Job Description:**

Contribute to tablet PC Platform Integration and Validation (PIV) function group, responsible for the platform integration and validation overall coverage, strategy definition, test plan development, and risk item identification from overall Atom based tablet platform architecture point of view. You need to work very closely with software and hardware development teams, and work as technical consultant help validation and debug team members solve any issues during test case development and test execution.

You will also lead the efforts to understand and evaluate the trend of the new technologies and the newly introduced features, develop and deliver some new test methodologies and introduce some new test/debug tools for next generations of platform integration and validation, to drive the validation coverage and efficiency. As the PIV architect for tablet platform, you will also need to work closely with application / enabling team, marketing team, development engineering functions and regional partners to understand the final product requirements to support the test results requirement from customers.

##### **Qualifications**

- Candidate must possess Masters or Bachelor degree in Computer Science and/or Electrical Engineering.
  - 10+ year experience of system development in an architecture, implementation and/or validation role would be valuable.
  - Requires an in depth understanding of Intel architecture, micro-architecture, and computer peripherals.
  - Exposure to OS (Linux, Windows, Android and etc), hardware development, common interface modules and protocols, such as GPS, 3G/4G, USB, SATA, PCI-E. Experience in C/C++, Java, Perl, Python other scripting language is essential to this position. Familiarity with XML, databases and web programming would be very helpful.
- Must possess excellent written and oral communication and team work skills.
- Demonstrated hands-on experience in successfully taking at least one major software/hardware project to closure.
  - Must be a self-motivated learner and initiative taker. Experience with existing Intel Architecture based products; Open-Source Development device drivers are highly desired.

**Explore new opportunities.  
Discover new challenges.  
Go Asia and Make an impact with Intel today!**