

Brunch with Sr. Managers at Intel Malaysia

Booth Chat -BIOS Engineer

All times shown in PST

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[01/04/13 5:59 PM] Zhe: Thanks. I would like to like to know if this is a senior position?

[01/04/13 5:59 PM] Lukasz-Intel: @Shari this is a BIOS booth :)

[01/04/13 6:00 PM] Sau.Kae-Intel: we do have senior /junior position for bios

[01/04/13 6:01 PM] Lukasz-Intel: Hi Zhe Xi, this might be potentially senior position in long term however currently we are looking for BIOS engineers.

[01/04/13 6:01 PM] Sau.Kae-Intel: are you experience in BIOS?

[01/04/13 6:02 PM] Zhe: No. But I know a little bit about it.

[01/04/13 6:02 PM] Lukasz-Intel: Intel does not use junior/senior titles usually, actual position and scope of impact depends on persons skillset and performance

[01/04/13 6:03 PM] Zhe: I was a graduate trainee a few months back, left Intel Malaysia due to no requisitoin at my department

[01/04/13 6:03 PM] Zhe: I am looking for a Grade 3 position

[01/04/13 6:04 PM] Sau.Kae-Intel: May I know what is your job scope during your GT?

[01/04/13 6:04 PM] Zhe: Design Automation

[01/04/13 6:05 PM] Lukasz-Intel: Zhe Xi: I see, if you are interested in software and have strong programming skills please submit your resume

[01/04/13 6:05 PM] Lukasz-Intel: <http://www.intel.com/jobs/jobsearch/index.htm?job=702098&src=CFE-12682>

[01/04/13 6:05 PM] Zhe: Thanks, Lukasz.

[01/04/13 6:06 PM] Zhe: I have great interests in programming, and I had build a strong foundation in PERL, Tcl/Tk, C/C++ during my GT period at Intel

[01/04/13 6:07 PM] Lukasz-Intel: Sau Kae: Job scope during GT migh depend on department, in BIOS typically it's doesn't differ much from regular employee duty, however GT will not be owning or responsible for major tasks or features

[01/04/13 6:09 PM] Lukasz-Intel: Zhe Xi: This is good skillset, BIOS is mostly C oriented, but we also use scripting languages for various purposes (mainly Python though)

[01/04/13 6:09 PM] Zhe: I agree. That's why I left after 6 months of GT extension. Thank you.

[01/04/13 6:11 PM] Zhe: I have exposure to Python though. My detailed job description back in September was data mining and analysis for "Metrics for Design Processes" (MDP) for Intel Hard IP division.

[01/04/13 6:11 PM] Lukasz-Intel: Most important skills in BIOS are strong C programming and very good understanding of PC platform and overall system knowledge

[01/04/13 6:12 PM] Zhe: I build the tool from scratch with my collaborators in Oregon, USA and my buddy Beh, Sheng Jwoh.

[01/04/13 6:12 PM] Zhe: You can refer to my ex-manager Choo, Yuh Ren too. Thanks.

[01/04/13 6:15 PM] Lukasz-Intel: Zhe Xi: I'm not sure about job scope of your previos position, but previous experience at Intel might be also advantage, since you are already familiar with Intel culture and tools

[01/04/13 6:18 PM] Zhe: Alright, Thanks for your patience, Lukasz. I will deposit my resume for this job. However, currently I am half-way pursuing a Master degree in engineering, will be available for work again within a year's time. Thanks!

[01/04/13 6:19 PM] Sau.Kae-Intel: Zhe Xi: thanks for your interest on this position. Do you have additional question regarding BIOS/this postion?

[01/04/13 6:20 PM] Lukasz-Intel: In that case please put down your availability details in resume, at this time we have full-time offerings only

[01/04/13 6:21 PM] Zhe: No. Although my knowledge in this area may be limited, I have heard about it during my internship at Intel. I even know UEFI which is now widely used in most BIOS. Thanks!

[01/04/13 6:25 PM] Sau.Kae-Intel: cool, do you download the EDK tool from web and try on the development kit?

[01/04/13 6:26 PM] Zhe: No, not yet. Will give it a try later.

[01/04/13 6:26 PM] Sau.Kae-Intel: <http://sourceforge.net/apps/mediawiki/tianocore/index.php?title=EDK2>

[01/04/13 6:26 PM] Lukasz-Intel: Zhe Xi: UEFI is a plus! It is not strictly required since we are looking mostly at programming skills and analytical thinking, but experience with the technology is a great advantage

[01/04/13 6:27 PM] Sau.Kae-Intel: this link is one of the EDK tool available in BIOS world, you can have fun with it :)

[01/04/13 6:29 PM] Lukasz-Intel: Yes, EDK is an open BIOS framework, some of it can run on windows to streamline

development

- [01/04/13 6:30 PM] **Sau.Kae-Intel:** Hi Misumi, welcome to BIOS booth, any question for Lukasz or me?
- [01/04/13 6:30 PM] **Diego:** Hi SK, Just finished back-reading. I think I am in the right booth
- [01/04/13 6:30 PM] **Lukasz-Intel:** You might want to have a look at EDK2 since it's very similar to what we use internally
- [01/04/13 6:31 PM] **Lukasz-Intel:** Welcome Diego, tell us more about yourself
- [01/04/13 6:33 PM] **Diego:** 10 years Product and Test Engineering experience on MOSFET and Analog products
- [01/04/13 6:34 PM] **Sau.Kae-Intel:** Diego: or just tell us what you expecting to get from this booth?
- [01/04/13 6:35 PM] **Sau.Kae-Intel:** Diego: do you know about BIOS/any programming language?
- [01/04/13 6:35 PM] **Lukasz-Intel:** impressive experience, are you interested in software engineering position?
- [01/04/13 6:36 PM] **Diego:** I have considerable experience in C++, Batch, Autolt and AHK scripting languages
- [01/04/13 6:37 PM] **Diego:** Yes, I am keen on doing more software work
- [01/04/13 6:38 PM] **Lukasz-Intel:** BIOS is almost all C, but if you have C++ experience you should be already on top of it
- [01/04/13 6:38 PM] **Diego:** Recently, I have been involved in automation software work for my present company
- [01/04/13 6:39 PM] **Diego:** Automation software to automate the test process
- [01/04/13 6:40 PM] **Somasekar:** Hi
- [01/04/13 6:40 PM] **Diego:** C should not be problem. I started coding on Turbo C
- [01/04/13 6:40 PM] **Lukasz-Intel:** Diego: Looks you have background in similar field, please do not hesitate and submit your resume
- [01/04/13 6:41 PM] **Diego:** SK, Does this job also involve hardware?
- [01/04/13 6:42 PM] **Sau.Kae-Intel:** for BIOS you do need to have hardware particular knowledge
- [01/04/13 6:42 PM] **Lukasz-Intel:** Surely, as long as you can live without C++ goodies :)
- [01/04/13 6:43 PM] **Lukasz-Intel:** Hardware exierience is a great advantage, we work closely with HW design and validation engineers
- [01/04/13 6:44 PM] **Lukasz-Intel:** And work with hardware specification on daily basis
- [01/04/13 6:44 PM] **Lukasz-Intel:** It's also very useful tu understand schematics for BIOS work
- [01/04/13 6:45 PM] **Diego:** Lukasz, you are right about that. Sometimes I write emails in C. hehe
- [01/04/13 6:45 PM] **Sau.Kae-Intel:** haha
- [01/04/13 6:45 PM] **Lukasz-Intel:** :)
- [01/04/13 6:46 PM] **Sau.Kae-Intel:** Welcome Chia.Wei.Chang & Nathan to BIOS booth
- [01/04/13 6:46 PM] **Nathan:** Hi Mielicki. Do BIOS engineer controls every aspect of parameters of the BIOS?
- [01/04/13 6:46 PM] **Diego:** How is Penang today? I was there last August?
- [01/04/13 6:47 PM] **Sau.Kae-Intel:** for BIOS we do work in team, so each member responsible for each area of parameter
- [01/04/13 6:48 PM] **Sau.Kae-Intel:** e.g. Memory Controller, Graphic and etc
- [01/04/13 6:48 PM] **Somasekar:** I have around 6 yrs experience in firmware design and validation and recently pursued my masters in System on chip design from Linkoping university, sweden. I have the necessary skillsets (Perl, Assembly language programming, C, Computer architecture, PC System Level Understanding) mentioned in the job description. But i don't have necessary experience on BIOS development. I am confident if given an opportunity can succeed in this job. Will I be considered for this position?
- [01/04/13 6:48 PM] **Lukasz-Intel:** Hi Nathan, depends what you mean, some parameters would be dependant on architecture, chipset specification or board design
- [01/04/13 6:49 PM] **Lukasz-Intel:** But BIOS engineer would have an insight in all of that
- [01/04/13 6:49 PM] **Sau.Kae-Intel:** Diego: Penang is always raining now, you have any other question about BIOS?
- [01/04/13 6:50 PM] **Lukasz-Intel:** Diego: weather is pretty stable here, I think it's not much different now then in August
- [01/04/13 6:50 PM] **Diego:** I have to ask this. Do you plan on putting over/underclocking features in the BIOS?
- [01/04/13 6:50 PM] **Somasekar:** Hi Lukasz-Intel, I have around 6 yrs experience in firmware design and validation and recently pursued my masters in System on chip design from Linkoping university, sweden. I have the necessary skillsets (Perl, Assembly language programming, C, Computer architecture, PC System Level Understanding) mentioned in the job description. But i don't have necessary experience on BIOS development. I am confident if given an opportunity can succeed in this job. Will I be considered for this position?
- [01/04/13 6:51 PM] **Nathan:** Yes. I get the point. As i know, some engineers sets the parameter to prevent the user to do any damage to the system (i.e.: tweak the voltage of the CPU, NB and etc).
- [01/04/13 6:52 PM] **Sau.Kae-Intel:** Diego: this feature actually is available in-house, but it depend on each OEM whether they want to implement this feature in commercial BIOS
- [01/04/13 6:53 PM] **Lukasz-Intel:** Hi Somasekar, BIOS experience is not strictly required for this position, if you have strong programming skills especially in C and good overall system understanding BIOS eng. may be

right position for you if you are interested in software career

[01/04/13 6:53 PM] **Diego:** Hi Nathan, Ok I understand. Thank you for the explanation.

[01/04/13 6:54 PM] **Somasekar:** ok thats great to hear, I am interested in the position and had applied for the same.

[01/04/13 6:54 PM] **Lukasz-Intel:** Nathan: Typically our internal BIOS has lots more setting then customer BIOS

[01/04/13 6:56 PM] **Nathan:** I been PC architecture involvement for 7 year and i had applied this position already. Just recently grad from a uni. from Penang. There is any chance that i get to prosopal my idea?

[01/04/13 6:56 PM] **Lukasz-Intel:** Great Somasekar, please make sure to submit you resume!

[01/04/13 6:56 PM] **Diego:** Hi Lukasz, Thanks. I will submit my resume for this position.

[01/04/13 6:57 PM] **Somasekar:** Lukasz, I have already submitted it through intel job portal site.

[01/04/13 6:57 PM] **Sau.Kae-Intel:** the BIOS in Intel actually do serve for customer enabling purpose(for new project) and validation purpose(for in house testing), in case you wish to know more about technically detail BIOS, you do encourage to download BIOS development kit(e.g. EDK) for further explorartion

[01/04/13 6:59 PM] **Nathan:** FYI, Orignal Equiped Manufacture or OEM like HP, Dell does not allow users to change much of their settings in the BIOS. Only self-built PC allows the user to change the BIOS settings.

[01/04/13 7:03 PM] **Sau.Kae-Intel:** yes, you can try to visit this website to learn more about BIOS

[01/04/13 7:03 PM] **Sau.Kae-Intel:** <http://sourceforge.net/apps/mediawiki/tianocore/index.php?title=EDK2>

[01/04/13 7:03 PM] **Lukasz-Intel:** Nathan: please submit your resume, the requirements given in job offer are not all that strict, more will depend on the skillset

[01/04/13 7:06 PM] **Lukasz-Intel:** Thank you Somasekar, got it!

[01/04/13 7:06 PM] **Sau.Kae-Intel:** Nathan, are you graduate from Wawasan ?

[01/04/13 7:07 PM] **Nathan:** I've already applied this postion and submitted my resume before this event. Hoping to get this position. I had an idea but i wanted it to proposal to some one. It's called Multi Processing Unit or MPU. This idea will cover sereval aspect like thermal design, architecture design and much more.

[01/04/13 7:08 PM] **Nathan:** Yes, Sau Kae. I'm graduate from Wawasan Open University.

[01/04/13 7:10 PM] **Sau.Kae-Intel:** ok, got your resume

[01/04/13 7:11 PM] **Sau.Kae-Intel:** Hi Ajosh, welcome to Intel BIOS booth

[01/04/13 7:12 PM] **Ajosh:** Hi Sau

[01/04/13 7:12 PM] **Ajosh:** I am graduate from Lund university Sweden in System on Chip

[01/04/13 7:13 PM] **Lukasz-Intel:** Nathan: Sounds interesting but seems you idea has a wider scope than BIOS. Intel is open for ideas and there is several channels to propagate ideas internally, but you must know the bar is high

[01/04/13 7:13 PM] **Ajosh:** I have 3 years of experience in C/C++ from india

[01/04/13 7:14 PM] **Ajosh:** Am I eligible to apply for this position?

[01/04/13 7:14 PM] **Sau.Kae-Intel:** Ajosh: Intel do involve in SoC as well, are you interested to apply BIOS engineer position? pls submit your resume

[01/04/13 7:14 PM] **Lukasz-Intel:** Ajosh: Yes, BIOS experience is not strictly required

[01/04/13 7:15 PM] **Sau.Kae-Intel:** Ajosh: yes, C/C++ experience sound great for BIOS position

[01/04/13 7:16 PM] **Ajosh:** OK Thanks Lukas and Sau

[01/04/13 7:16 PM] **Nathan:** Yeah. I know but i i'm going to proposal is a way to ensure the PC industrial still maintain strong. I'm going to do is shirk the PC form even smaller than the standard ITX.

[01/04/13 7:16 PM] **Lukasz-Intel:** Ajosh: If you are strong in C and have good overal system background please do not hesitate and apply for BIOS position

[01/04/13 7:17 PM] **Ajosh:** How is the processing step for this position?

[01/04/13 7:17 PM] **Ajosh:** I am in Sweden now

[01/04/13 7:18 PM] **Lukasz-Intel:** I see, this is not an issue, we might make a phone interview first

[01/04/13 7:18 PM] **Ajosh:** ok

[01/04/13 7:19 PM] **Lukasz-Intel:** Please feel free to ask questions to learn more about BIOS and job scope

[01/04/13 7:20 PM] **Nathan:** Forget to mention, BIOS is also part of my project but mainly still based on UEFI structured. Hope to change it some day to become more friendly user.

[01/04/13 7:22 PM] **Ajosh:** How big this team in Malaysia

[01/04/13 7:22 PM] **Lukasz-Intel:** Nathan: we strive not to disturb user with BIOS settings. We are working hard so user doesn't need to know about BIOS at all.

[01/04/13 7:23 PM] **Sau.Kae-Intel:** Nathan: great, sound like you have high ambitions on BIOS :) do hope to chat more with you thru phone interview

[01/04/13 7:23 PM] **Lukasz-Intel:** Ajosh: There are several BIOS teams in Penang, but I cannot answer precisely now.

[01/04/13 7:24 PM] **Sau.Kae-Intel:** Ajosh: currently we do have about 4-5 different BIOS teams in Intel Malaysia

[01/04/13 7:25 PM] Sau.Kae-Intel: each team is about 4-7 ppl who responsible for different project/market segment of Intel.

[01/04/13 7:26 PM] Ajosh: ok Thanks for the information Lukas and Sau

[01/04/13 7:26 PM] Lukasz-Intel: However BIOS components are being developed in few Intel sites, it's international enviroment. I understands. For some people, seeing the source codes is terrible for them. Once you are familiar with it, it is quite easy actually.

[01/04/13 7:27 PM] Nathan: Nathan: agree :)

[01/04/13 7:30 PM] Sau.Kae-Intel: Some of the components are also developed by geographically dispered teams.

[01/04/13 7:30 PM] Lukasz-Intel: Nathan: UEFI has specific design and coding style, but you may get familiar with it looking at open-source EDK2 project.

[01/04/13 7:32 PM] Lukasz-Intel: Previous BIOS with blue, white, yellow and red color doesn't support Graphic User Interface or GUI plus Mouse input. Only UEFI support this kind of hardware. They even have UEFI forum and one member of it was intel.

[01/04/13 7:35 PM] Nathan: Right UEFI is a framework shared between BIOS vendors, however the look and feel of BIOS Setup is usually vendor specific

[01/04/13 7:39 PM] Lukasz-Intel: Open source EDK2 version offers only simple text-based menu

[01/04/13 7:40 PM] Lukasz-Intel: Hi Zhe Xi, I got your resume but it seem like couple years ago, can you submit any updated one?

[01/04/13 7:43 PM] Sau.Kae-Intel: Sure, Sau Kae.

[01/04/13 7:45 PM] Zhe: thanks

[01/04/13 7:45 PM] Sau.Kae-Intel: (15 minute warning): Just a reminder that the event will be ending in 15 minutes. We'll do our best to answer your questions in this time. For more information about Intel, please visit intel.com or connect with us through social media on Facebook, LinkedIn or Twitter! We love to hear your feedback! Please complete our short event survey located in the bottom left of the screen.

[01/04/13 7:47 PM] Sau.Kae-Intel: I've won some books from intel last 2 years. I don't either the books help or not in BIOS but mainly is related the structural design. Here are the links: 1.) <http://noggin.intel.com/intelpress/categories/books/weaving-high-performance-multiprocessor-fabric> 2.)<http://noggin.intel.com/intelpress/categories/books/mastering-high-performance-multiprocessor-signaling> 3.) <http://noggin.intel.com/intelpress/categories/books/beyond-bios-2nd-edition>

[01/04/13 7:50 PM] Nathan: Nathan & Zhe Xi: anything you wish to know more about Intel BIOS?

[01/04/13 7:50 PM] Sau.Kae-Intel: Edit. I don't know. Bad Connection. Sorry Wrong typo.

[01/04/13 7:51 PM] Nathan: Beyond BIOS is a nice book to know about BIOS structural

[01/04/13 7:53 PM] Sau.Kae-Intel: but I do strongly recommend you to try out the EFI driver development and you can run it with EFI shell

[01/04/13 7:55 PM] Sau.Kae-Intel: Yeah. I target the 2nd Book named "Harnessing the UEFI Shell" but i couldn't get it. Anyway i'll try any ideal that you guys had proposed.

[01/04/13 7:57 PM] Nathan: EDK2 has simulation package called Nt32, it can run big portion of the framework including Shell under windows

[01/04/13 7:58 PM] Lukasz-Intel: Btw, thanks for any info that are provided in this chat. Have a nice day!

[01/04/13 7:58 PM] Nathan: Thank you for joining!

[01/04/13 7:58 PM] Lukasz-Intel: Thanks and have a nice day too!

[01/04/13 7:58 PM] Sau.Kae-Intel: Good, i'll try later. Thanks Lukasz.

[01/04/13 8:00 PM] Nathan: Our career fair is now ending. We appreciate your questions and the time you took to meet with us today. We hope this event helped you to better understand Intel and the jobs available. For more information about Intel, please visit intel.com or connect with us through social media on Facebook, LinkedIn or Twitter! We love to hear your feedback! Please complete our short event survey located in the bottom left of the screen. For your convenience, this chat transcript will be available for further

[01/04/13 8:00 PM] Sau.Kae-Intel: Please complete our short event survey located in the bottom left of the screen. For your convenience, this chat transcript will be available for further review. Thank you for attending, it was great to meet you!