

Yanuo Deng (James)

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Gaurav Baweja

Dear Hiring Manager,

I am applying for the position of “ Embedded Developer ” in your esteemed company.

I believe I am the right candidate for the position . I have a MSc in Semiconductor. My 15+ years of experience, among others, includes a dual-MIPS SOC chip designing , Linux kernel trimming / driver porting , FreeRTOS driver porting / task coding, and bootloader coding.

I am committed to achieving results and working long hours to achieve them is not a problem as evidenced by delivering at the rate of one IP core per month, with the SOC passing at first tapeout with a US patent awarded.

During developing / porting device drivers for Linux / FreeRTOS, I know what happened inside the CPU when writing to the registers, which give me some advantage at bootloader / driver developing .

I have WiFi driver developing / debug experience. I wrote UDP sender / receiver by FPGA leading me know every bit in the network transport layer.

I use git / gnumake / bash / perl / sed / grep / vim as my developing tools.

I use OpenWRT / buildroot to build custom base system. I haven't used Yocto .

The SPI, I2C, UART, PWM generators and Ethernet, are IP cores in my eyes. I can write them by verilog, and I know how to operate them in most efficient method in linux device drivers or FreeRTOS drivers.

During prototype developing, I use mathematica / Golang / perl, while Golang / C / verilog / FPGA will be used to verify the system.

A living example : I wrote a Makefile last week to help in generating my resumes from \TeX to PDF :

https://github.com/dengyanuo/tex_resume/blob/main/Makefile

The interviewer can know whether I am a qualified C developer under linux by it.

I hope my background meets your needs and I look forward to elaborating on how my specific skills and abilities will benefit your company.

I can be contacted at deng.ya.nuo@gmail.com or (408)444-5520 to arrange for a convenient time to meet.

Sincerely,

Yanuo Deng (James)