

Yanuo Deng (James)  
1565 Cress Way, Olivehurst, CA, 95961 \* (408)444-5520 \* [deng.ya.nuo@gmail.com](mailto:deng.ya.nuo@gmail.com)

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Shawn Taylor  
Associate Director at Microchip Technology, Roseville, CA

Dear Shawn Taylor,

I am applying for the position of “ Tech Staff Engineer-ASIC Design” in your esteemed Microchip company.

I believe I am the right candidate for the position as I have a MSc in Semiconductor. My 15+ years of experience, among others, includes designing a dual-MIPS SOC with a Security Engine inside. I wrote all the IP cores consisting of AES, DES, 3DES, MD5, SHA1, CRC used to speed up the DICE + RIoT security cryptography. Each IP core was about 3000 to 5000 lines in Verilog HDL, activities included designing and testing the RTLs & Netlist, and timing check rules for simulation and place & route.

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 US7356671B1 awarded.

I am also experienced at using Linux / VxWorks, analogy simulation tool Hspice, and prototyping using Xilinx/Altera FPGA boards.

I have experiences at Linux kernel trimming, bootloader coding, embedded Linux systems porting at ARM/MIPS, and FreeRTOS porting at STM32.

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

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

Sincerely,  
Yanuo Deng (James)

## Resume of Yanuo Deng (James)

1565 Cress Way, Olivehurst, CA, 95961 \* (408)444-5520 \* deng.ya.nuo@gmail.com

### CAREER OBJECTIVE

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Focused professional with 15+ years of experience and a proven knowledge of embedded system (Linux/RTOS), and digital & analog circuit design. Aiming to leverage my skills to be a successfully Integrated Circuit Engineer, Software Engineer, or Network Security Engineer.

### EXPERIENCE

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#### **C-MATRIXTECH CO.LTD., Zhuhai, China, 3 people R&D/6**

*Integrated Circuit Designer, Dec 2017 - Feb 2019*

- \* Verilog coding, FPGA simulation and debug for self-powered SOC chip.
- \* MCU debug; Port C-language from Assembly for the MCU; Mixed (Analog) circuit design
- \* Achieved self-powered MCU SOC used on iPhone data cables; Mass production 10k/M

#### **VIOMI CO.LTD., Foshan, China, 3 people R&D/200**

*Software (Firmware) Engineer, May 2017 - Oct 2017*

- \* Linux driver for the Wi-Fi chip; Speech Recognition App for Linux
- \* Achieved smart wireless Speech Recognition module; Mass production 3k/M

#### **BLUEWAY CO.LTD., Huizhou, China, 5 people R&D/2500**

*Software (Firmware) Engineer, May 2016 - Apr 2017*

- \* FreeRTOS system migration to STM32 for the embedded board, target for electric mowers

#### **ADON CO.LTD., Foshan, China, 3 people R&D/350**

*Software (Firmware) Engineer, Oct 2013 - Dec 2015*

- \* Linux driver & app for the Homepod (Wi-Fi speaker/charger for iPhone); Mass production, 3k/M

#### **SKYIT SOFTWARE CO.LTD., Shunde, China, 5 people R&D/500**

*Software Engineer, Dec 2011 - Jul 2013*

- \* Windows Client App by C#; Data API by C for the first order a meal Android App in China

#### **VBRIDGE MICROSYSTEM INC, San Jose, CA, 5 people R&D/12**

*Digital Integrated Circuit Engineer, Apr 2005 - May 2008*

- \* IP cores of security engineer: AES, DES, 3DES, MD5, SHA1, CRC; 5-bits MCU core.
- \* All IP cores tapout in a dual-MIPS SOC Chip.
- \* Linux + VxWorks board support package (BSP) was built for the dual-MIPS.

### EDUCATION

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XI'AN university of technology, Xi'an city, Shannxi, China

*Master of Science (M.S.) Microelectronics & Solid State Electronics (Apr 2005)*

### ADDITIONAL SKILLS

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- \* C, Verilog, Vim, Bash, Perl, Go-language, Gnumake, git
- \* Linux / FreeRTOS driver

### Certifications

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Electronics Engineer Certification, Foshan, China, Aug 2008

### Personal Characteristics

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I work well within teams, and I am assertive and creative in finding the best solutions for the team. I am known to be stable and firm when coding. I am committed to achieving goals set for me. I speak and write Cantonese/Mandarin.

### Referrals

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Dan Teuthorn, Teledyne microwave solutions, VP engineer, 408-421-7303, Den.Teuthorn@teledyne.com

Tang Shanqiang, Cadence, Principal Application Engineer, +65-90546301, ansent@cadence.com

Stephen Fung, Atheros/Qualcomm, semiconductor engineer, 408-338-5175, stephen@thepoint.church

USA Employment Authorization Document (EAD) valid from 2021 to 2023. No work sponsor is needed.