

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 company.

I believe I am the right candidate for the position as I have a MSc in Microelectronics & Solid State Electronics. 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 as an embedded engineer using Linux + VxWorks, analogy simulation tool Hspice, and prototyping using Xilinx/Altera FPGA boards.

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

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; 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 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 for the security engineer: AES, DES, 3DES, MD5, SHA1, CRC
- \* 5 bits MCU for the dual-MIPS SOC chip
- \* All IP cores verified by the SOC Chip

## 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 engineering, 408-421-7303, Den.Teuthorn@teledyne.com

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

Khinmien Chong, STATS ChipPAC Ltd., 408-819-8676, khinmienchong@gmail.com

USA Employment Authorization Document(EAD) valid from Feb 2021 to Feb 2023.