Timothy Logan

ティモシー・ローガン

Contact

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Profile

Objective Challenging job that utilizes my skill set and provides an opportunity to create innovative solutions to difficult problems. Responsibility to leverage existing knowledge and experience to implement advanced solutions, while learning and employing new technologies and perspectives.

Education

2005 to 2010 **B.S. in Computer Engineering (May 2010)**
Texas Tech University, Lubbock, TX
Cumulative GPA: 3.61, Cum Laude
Minor in Japanese

Languages

English (native) **Japanese** (intermediate) **Mandarin Chinese** (Elementary)

Key Skills

Proficient or familiar with a vast array of programming languages, concepts and technologies, including:

Microcontrollers	Middleware	Windows, Linux	UART/I2C/SPI
MSP430	RTOS	Embedded Assembly	Python
ARM Cortex M	UEFI/Capsule Update	Debugging	Linux/UNIX/Shell
ADC/Analog	CMSIS	Embedded C/C++	USB

Work Experience

Texas Instruments Incorporated, Shanghai, China
Software Engineer **July 2014 to Present**

- Expatriate assignment to Shanghai MSP430 Applications team to foster support and collaboration between US Applications Team and Shanghai Applications Team
- Software development for MSP430 and ARM Cortex M based microcontrollers including development of middle ware drivers and user libraries
- Deep involvement with ARM ecosystem including use of CMSIS drivers, mBed software libraries, ARM based development tool chains (IAR, KEIL, CCS, GNU), and RTOS solutions
- Support for customers and field application engineers in the Asia region involving periodic business travel to Taiwan, Japan, China, and South Korea

Texas Instruments Incoporated, Dallas, TX
Software Design Engineer **August 2011 to July 2014**

- Embedded C development for the Texas Instruments MSP430 micro-controller and ARM Cortex M4/M0+ microprocessors
- Utilization and development of applications exercising all peripherals of micro-controller such as SPI, USB, I2C, ADC, Flash, etc
- High level of UNIX/Linux exposure. Use of applications such as Jenkins CI for automated regression testing. Development of test automation using suite of Python/Shell scripts.
- Experience programming low level UEFI drivers to interact with MSP430 over I2C and Windows 8 capsule updates. Development of kernel SPB drivers in Windows to communicate with device over I2C
- Frequent business travel within Taiwan, Japan, and Mainland China for customer support, training, and high stakes debug of software/silicon

Texas Memory Systems, Houston, TX

Software Engineer II **June 2010 to August 2011**

- Embedded C firmware development for high capacity solid-state drive systems
- Code validation, including searching for new and efficient ways to optimize existing implementations
- High level of Linux/UNIX exposure including c, kernel optimizations, and driver development
- Utilize a variety of different programming languages including C/ C++, Java, Python, and shell scripts

Asahi Kasei Corporation, Kanagawa-ken, Japan

Software Developer **July 2008 to July 2009**

- Created and maintained tools to aid the training and evaluation of acoustic models for voice recognition while utilizing a variety of different programming languages including Java, C++, Perl, and Python
- Assisted with development, maintenance, and evaluation of the US English acoustic model as well as provided expertise on pronunciation, grammar, and intonation of the US English language
- Developed an intermediate level of verbal and written Japanese as well as an understanding of the basic structure of a Japanese company

National Instruments, Austin, TX

Engineering Leadership Program Intern **May 2008 to July 2008**

- Completed elementary and intermediate training courses on National Instrument's products including LabVIEW and CompactRIO
- Created LabVIEW training exercises to be used for the FIRST robotics competition