Tzu-Yu Kuo

3F., No.3, Ln. 82, Gangqian Rd., Neihu Dist.
Taipei City 114, Taiwan
Mobile : +886-975-235-305
Email/Skype/Facetime
: openforbid@gmail.com
Alternative Email
: Jerry.Kuo@garmin.com
WeChat : nemesisred

TECHNICAL PROFILE

Natural Language:

- Mandarin Chinese : native
- English : fluent
  - TOEIC: 925/990 (May 31, 2018)

Technical tools:

- C (primary), Python (secondary), Java (secondary), ARM asm (secondary), perl (secondary)

EXPERIENCE

GARMIN CORPORATION Dec.2014 – Present (~4y)
Software Engineer New Taipei City, Taiwan

Responsible for developing **low-level** software of World-Wide Outdoor products (including high-end smart watches like the fēnix series and GPS handheld units like the Rino series)

Duties:

- Lead or support the **low-level** software development of World-Wide products
  - Software project lead of *GPSMAP® 64sc World-Wide* version
  - Participant of low-level software developing of Oregon7xx, Montana 6xx, Rino 7xx, GPSMAP276cx, fēnix 5 series, Vivomove series
  - Cooperate with EE, ME, high level UI team and integrate components like NAND, RAM, MCP, Display, GPS, Bluetooth, Radio, sensors…into end-user products on Unix-like Garmin OS
- Implement peripheral interface drivers (like i2c/i2s/dma…) of new MCU on Unix-like Garmin OS
- Development/maintenance of algorithm or work flow for sensor features or system power modes
- Outdoor production line support
  - Issues clarifying and solving
  - Production line tests related functions on the embedded device side
- GNSS expertise
  - Consultant of GPS/Glonass/Galileo/BeiDou/QZSS related problem – especially BeiDou and QZSS whose signal are only valid in Asia
  - Design and implement testing/monitor programs based on GNSS principle
- Evaluate the performance of chipsets as well as features with new technology

EDUCATION

NATIONAL TSING HUA UNIVERSITY

Master of Engineering major in Computer Science Sep. 2011 – June 2013

Bachelor of Engineering major in Computer Science Sep. 2007 – June 2011

Hsinchu City, Taiwan

Thesis: Reliability Analysis and Application of Using Finite Server Queuing Models in the Detection and Removal Processes of Software Faults