

Hsin-Wu (John) Liu

SOFTWARE ENGINEER

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“Stay Hungry, Stay Foolish.”



Summary

Being a software engineer with an M.S. degree in mechanical engineering makes me see things differently. Being a Linux and Vim enthusiast for 5+ years, I am familiar with all sort of administration and development tools and techniques on Linux. Huge believer of *KISS* and *CLEAN* principles, and believes that codes will only work if they have been tested. Loves to dive into challenging problems and find out the root cause, and willing to study and learn new technologies or skills if they could help.

Skills

Programming Language	Python, C/C++, Rust
Backend System	Python-Flask, PostgreSQL, Debian
DevOps	Ansible, Jenkins, Vagrant
Languages	Chinese (Mother tongue), English (Fluent)
Development Environment	ArchLinux, Vim, tmux

Work Experience

MedicusTek Inc.

SOFTWARE ENGINEER

Taipei, Taiwan

Dec. 2015 - PRESENT

- Designing and implementing an IoT gateway to communicate and monitor multiple IoT devices with Bluetooth.
- Designing the data model and some data transformation algorithm in Python.
- Designing and Implementing services on Linux backend system which receives data from multiple IoT devices and using ZeroMQ to communicate with other services.
- Designing and implementing a backup and data storage backend system on Linux.

Education

M.S. in Mechanical Engineering

NYUST(NATIONAL YUNLIN UNIVERSITY OF SCIENCE AND TECHNOLOGY)

Yunlin, Taiwan

Sept. 2012 - Sept. 2014

- System Control and Measurement Lab.

B.S. in Mechanical Engineering

NYUST(NATIONAL YUNLIN UNIVERSITY OF SCIENCE AND TECHNOLOGY)

Yunlin, Taiwan

Sept. 2008 - June. 2012

Writing

Autonomous Navigation of UGV Based on AHRS, GPS and LiDAR

AUTHOR

Master Thesis

Sept. 2014

- Implementing UGV navigation algorithm on Embedded Linux

Intro to Rust

AUTHOR

Github

Dec. 2016

- A slide for introducing the *Rust programming language* to colleagues

Brief Introduction to Cryptography and Network Security

AUTHOR

HackMD

Aug. 2017

- A slide for introducing the the basic concepts of cryptography and network security to colleagues