

Yuyang Huang

Shirufido, RM 101 – kitazawa 3-7-8 – 155-0031 Setagaya, Tokyo
☎ 080-4339-9496 • ✉ sigefriedhyy@gmail.com • 🌐 kdb-m.org
📄 <https://www.linkedin.com/in/yuyang-huang-46360092/>
🔗 <https://github.com/sigefried>

Objective

Seeking a full-time job opportunity as an Software Engineer who works on ANY of the following field: Server side software development, Large scaled distributed system development, Linux kernel Development, Or as an Site reliability Engineer.

Working Experience

Sony

Tokyo Japan

Linux system R&D Engineer

April 2016–Present

- Work at system software R&D groups at Sony.
- Design and develop secure application framework on embedded Linux for IoT device and Robotics.
- Linux kernel/Driver development and maintains for embedded system platform.

Education

The University of Tokyo

Tokyo Japan

M.S.

October 2013–March 2016

Graduate school of Information Science of Technology, major in Information and Communication Engineering

Dong Huang University

ShangHai China

B.Eng.

September 2009–July 2013

Department of Electrical Engineering, major in Electrical Engineering and Automation

Selected Projects

Height Aided PNS

C/C++, Python, Java

A high accurate pedestrian navigation system for middle and deep urban canyon environment

Techniques: Algorithm design, Optimization, Self Localization, Data Visualization, GNSS, WiFi Localization, Android Programming

vflipnum

C/C++

A stochastic local search algorithm based SAT solver

Techniques: Algorithm design, Satisfiability

(This project wins the 10th place at SAT Competition 2013 under Core Solvers, Sequential, Random SAT Benchmark)

Cow Evaluator

C/C++

A cow health assessment system using Kinect.

Techniques: OpenCV, Kinect

(This project wins the National 3rd Price of Intel Cup Embedded System Design Contest, July 2012)

Skills

- Algorithm design, analysis and implementation.
- Strong background in Linux Kernel/Driver development, Linux system programming.
- Deeply understand the Linux security and resource management mechanism: DAC, Capabilities, Namespace, Seccomp, Cgroups etc.
- Good experience with large scale software development (Linux Kernel).
- Good experience with container software: runC and Docker.
- Good experience with Linux system administration.
- Practically good knowledge of networking such as TCP/UDP/IP.

- IDE: Visual studio, Xcode, Android studio, IntelliJ, Pycharm etc.
- Editor: Vim, VsCode, Emacs.
- Programming language: C/C++, Python, Golang, Java, Shell, Ruby, Haskell, Javascript.

Awards

Excellent Bachelor Thesis Award

July 2013

Undergraduate Thesis Title: Improving stochastic local search algorithm for solving Boolean Satisfiability Problem with new heuristic approach

National 3rd Price of Intel Cup Embedded System Design Contest

July 2012

Publications

Li-Ta Hsu, Yanlei Gu, Yuyang Huang, and Shunsuke Kamijo. Urban pedestrian navigation using smartphone-based dead reckoning and 3-d map-aided gnss. *IEEE Sensors Journal*, 16(5):1281–1293, 2016.

Yuyang Huang, Li-Ta Hsu, Yanlei Gu, and Shunsuke Kamijo. Gnss correction using altitude map and its integration with pedestrian dead reckoning(submitted). *IEEE TRANSACTIONS on Intelligent Transportation Systems*, 2016.

Yuyang Huang, Li-Ta Hsu, Yanlei Gu, Haitao Wang, and Shunsuke Kamijo. Database calibration for outdoor wi-fi positioning system. *IEICE TRANSACTIONS on Fundamentals of Electronics, Communications and Computer Sciences*, 99(9):1683–1690, 2016.

J.C Chen Y.Y Huang. vflipnum: A local search with variable flipping frequency heuristics for sat. *Proceedings of SAT Competition 2013 : Solver and Benchmark Descriptions*, July 2013.