Bo-Wei Lu

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Summary

Hands-on experience in unmanned aerial vehicle perception, localization and sensor fusion

Hands-on experience with Embedded System Design, Paint and Welding Robot

Proficient in C++, Python, Android and iOS development, HTML, CSS, Linux

Outstanding communication skill with people, self-motivated in a quickly changing environment

Github for all projects: https://github.com/zxspring21

Education

M.S. Computer Science and Information Engineering, National Central University, Taoyuan, Taiwan, 2015-2017
GPA: 3.36

B.S. Computer Science and Information Engineering, National Kaohsiung University of Applied Sciences, Kaohsiung, Taiwan, 2011-2015 GPA: 3.48

Experience

Software Engineer, HTC, Taiwan ***Dec. 2017 – present***

Project: Android Radio Interface Layer (RIL) architecture development

- Debugging and improving the problems occurred from modem, framework, and kernel or others
- Processing data and network transmission between modem and framework layer
- Network Kernel implementation with other vender's libraries
- Using C and script language to deal with different issues in Kernel drivers

Management Information System Engineer, National Central University General Affairs ***Sep. 2015 – Aug. 2017***

Project: Managing online-reservation system and planting on campus system in Linux servers

- Updating website information and managing errors or problems occurred from different situations
- Using PHP, Javascript, HTML, CSS and SQL grammars to maintain the system running
- Discovering and solving the problems from log files in Linux systems

Independent Developer, Taipei, Taiwan ***Jul. 2010 – present***

Project: Shepherd boy in Virtual Reality with cellphone and multi-sensors fusion

- Developing the animation scene with Maya and design the actions by moving targets using C# in Unity3D
- Combining with attitude sensor MPU6050 and using cardboard to control user's behavior in Mobile VR

Project: Unmanned Rescue Ship with C

- Designing the path planning method with GPS module with C in LinKIt ONE development board
- Designing the ship drawing with AutoCAD 3D Printing and hardware layout in vehicle
- Using propellers and plastic bags to implement thrust reverser principle in amphibious vehicle

Project: Order Management System App in Android System

- Using MVC for Android and improving the UI and UX design in App
- Integrate database and user's input and performance optimization for Android

Statistical Seminar Researcher Intern, Institute of Statistical Science Academia Sinica, Taipei, Taiwan
Jul. 2015 – Aug. 2015

Project: Statistical conference seminar

- Finding the best data distribution model and analyzing different evaluated methods in projects
- Using R and statistical software to analyze patient information and visualization
- Applying statistical theories like linear regression to find the association with data
- Getting merit award from the contest of medical science application in statistical science

Publication

Bo-Wei Lu, "Obstacle detection and collision avoidance for multi-copters," in Proc. National Central University Electronic Theses & Dissertations, Aug, 2017.