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# C. ztsiang

## Education

Guilin University of Electronic Technology, Master, Communication& Information Engineering, 2014 – 2017.
Suihua University, Bachelor, Electronic and Information Engineering, 2010 – 2014.

## Honors or Awards

A study for optimizing the indoor geomagnetic reference map, Geodesy and Geodynamics, 2016.6.
A Method of Building Indoor Geomagnetic Reference Map and Device, Patent (pending), 2016.7.
The National Second Prize in the 12th "ZhongGuanCun Youth Cup" National Graduate Mathematical Contest in Modeling China Academic Degrees & Graduate Education Development Center (CDGDC), 2016.3.
The South China Division Second Prize in "Huawei Cup" The 10th China Graduate Student Electronic Design Contest China Academic Degrees & Graduate Education Development Center (CDGDC), 2015.8.
The Northeast Division Third Prize in "Bo Cup" National University of Embedded Networking Design Competition Ministry of Industry and Information Technology & The Chinese Institute of Electronics (MIIT), 2013.6.
Qualification Certificate of Computer and Software Technology Proficiency Professional and technical personnel qualification examination, Primary, 2012.5.

## Projects

**Oct. 2015 ~ Present, Multi-source Fusion and Co-location Mechanism Research of Global Universal seamless IOPS, Geomagnetic Position Algorithm Developer;** for the outdoor environment, the system, put forward the clearance RTPPP/MIMU/gravity field multi-source fusion positioning mechanism; for indoor environment, which put forward the MIMU /geomagnetic field / gravity field or pressure field, multi-source co-location mechanism. There are real-time online MIMU error correction model, indoor geomagnetic field model, pedestrian navigation calculation, floor synergy estimates and key technologies such as near the geomagnetic matching algorithm.
**Sep. 2015 ~ Oct. 2015, Optimization of NC machining tool motion control, Project Team Leader;** the numerical control processing instructions issued by the control system have made cutting tools meet the requirements of various kinds of sports. Today's numerical control processing technology are developing in the direction of high performance and high precision, which need to research and development of high- speed, high precision requirement of the deceleration of flexible and effective control method and the efficient path optimization algorithm, a specific processing lines, the improved algorithm.
**Apr. 2015 ~ Jul. 2015, Moving target monitoring and face recognition system, ARM Developer;** It is a new multi-function security system based on ARM11 platform. When there is a moving target on the surveillance area, alarm system, automatic face recognition systems, video capture, mail delivery module and monitoring personnel can remote monitoring anytime and anywhere.
**Dec. 2014 ~ Jan. 2015, Atmospheric turbulence correlation coefficient measurement, Independently;** by measuring the change of atmospheric temperature between two points, atmospheric turbulence refractive index structure constant can be obtained. Measuring temperature and the current atmospheric pressure between two points by hardware system, and the measure results, then the subsequent data processing information is sent to the PC via a serial port.
**Mar. 2013 ~ Jul. 2013, Ward monitoring system based on Internet of things, Project Team Leader;** the system adopt "bo Cup" platform s3c6410 microprocessor, video communication module and sensor module. We design a wireless video transmission system, to transfer device collected data through the network to network servers, operating system transplant the embedded Web server GoAhead, combined with PHP, HTML scripting language, such as adopted B/S structure to various environmental parameters and indicators displayed on the web. Real-time monitoring of hospital wards and indoor temperature and humidity testing, and connected to the Internet via USB wireless card, she has great practical value.

## Skills

Computer language: C, C++, Java, Python, Matlab, Shell;
Applications: Android Studio, Visual Studio, Matlab/Octave, SAS, Linux, Keil;
Algorithm: Indoor Localization Algorithm, Kalman Filter/Particle Filter, Gaussian Process Regression, Kriging Interpolation, Clustering, Dynamic Programming.