Xingke Yang

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EDUCATIONS

Southwest Jiaotong University   *09/2018-06/2022*

Bachelor of Engineering, Measurement and control technology and instrument   GPA: 3.52/4.0

COURSEWORK & SKILLS

- **Curriculum Highlights**
- Principles and Application of Single-chip Computer, Microcomputer Principle and Interface Technology, EDA Technology, Basics of Control Engineering, Modern Control Theory, Basics of Computer Programming, Signal Analysis and Processing, DSP Principle and Application
- **Software Operation & Language Proficiency**
- C/C++, MATLAB, Keil5, Arduino, STM32, LabVIEW, Multisim,Node.js, JavaScript, SQLServer, Altium Designer, Simulink, SolidWorks

- English（TOEFL：109/120）

RESEARCH EXPERIENCES

Investigation of Electronic Control System of Automatic Intelligent Garbage Classification Bin
Supervisor: *Chaogen Jiang*   *09/2020 – 10/2021*

- A garbage bin that is capable of intelligent image recognition, classification, and storage of household waste.
- Equipped with functions of compressing the compressible garbage, alarming the full load, and playing the garbage classification propaganda video.

Investigation of Electronic Control System of Intelligent Crane Robot based on Image Recognition
Supervisor: Chaogen Jiang   *02/2021 – 10/2021*

- Crane robot based on image recognition with the function of recognizing the markings of crates and transporting and stacking them as the requirement.

Investigation on the Design of Control System for Ventilator based on STM32 Microcontroller
Supervisor: Yanrong Zhang   *01/2022 – 06/2022*

- A ventilator control system with functions of intelligent switching, button speed regulation, data acquisition, air pressure regulation, monitoring, and alarming.

Investigation of the Internet-based Development of Dynamic Visualization of Hydraulic Systems
Supervisor: Wenhai Wu   *06/2020 –04/2021*

- Utilized the SQL server database and Internet technology, and developed a technical method to use remote APP monitoring for the MCGS simulation software.

WORK EXPERIENCE

Hi-Trend Technology (Shanghai) Co., Ltd., Shanghai, China

Embedded Software Engineer   *07/2022-present*

- Mastered the industry technical requirements and standards of the modules involved in smart meters and designed and improved related software-driven functions.

- Carried out a complete inspection and test of the software framework and basic functional functions of the electric meter, worked out the program defects and a feasible improvement plan.

- Wrote a program to help measure the stability of relevant operating signals under different hardware circuit designs and circuit connections.

PUBLICATIONS

Xingke Yang. 2021. Working dynamic remote monitoring method for industrial hydraulic system. No.: CN202110398002.0.

Xingke Yang. 2020. Garbage can with automatic classification function. No.: CN202023333818.5.

HONORS & AWARDS

Engineering practice and innovation ability competition of Chinese College Students **(National First Prize)**   *2021*
Logistics Technology (Crane) Creative Competition of Chinese College Students **(National First Prize)**   *2021*
Energy saving and emission reduction social practice and technology competition of Chinese College Students
(National Third Prize)   *2021*
The 12th Extracurricular Science and Technology Innovation Experiment Competition of Southwest Jiaotong University
(School First Prize)   *2021*
The Second-class Comprehensive Scholarship   *2021*
The Third-class Comprehensive Scholarship   *2019*