Shi Yulong

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EDUCATION

Guilin University Of Electronic Technology   09/2019-Present
B. S. in Engineering; Major in measurement and control technology and instrument   *Rank 2/178*
Selected Courses: *Fundamentals of Analog Electronics, C Language Programming, Advanced Mathematics, College Physics, Fundamentals of Circuit Analysis, Fundamental Theory of Digital Circuit, High-Frenquency Electronic Circuit,Electromagnetic field theory, Fundamentals of Automatic Control*

Scholarship

National Encouragement Scholarship
Guangxi Autonomous Region Government Scholarship
First prize scholarship of Guilin University Of Electronic Technology
School of Electronic Engineering and Automation`s Brilliant Scholarship
Excellent Campus Ambassador of HiSilicon Technology Co., Ltd

Competition And Honor

Excellence Award of National Lanqiao Cup Program Design Competition
The Most Outstanding Sudent (Spring 2021 & Fall 2020)
First Prize of Guangxi Translation Competition
The second prize of Guangxi Undergraduate Electronic Design Competition

RESEARCH EXPERIENCE

Design of Huanglong disease detection system based on quadrotor UAV *(Patent in Preparation)*
04/2022-Present
Lab: Embedded System Training Base of GUET; Advisor: Zou Shuizhong
➢ DIY a quadrotor UAV with stable flight, high control accuracy and obstacle avoidance function and Studies the application of basic SLAM algorithm in UAV indoor flight
➢ Trained the detection model of Huanglong disease and Used the AI vision module to detect feature elements and record feature images on the UAV
➢ Used OpenMV as the vision module to enable the UAV to patrol the flight and recognize specific characters.Combined STM32F4 and FreeRTOS and applied them in the process of UAV flight command

Modular split takeout cabinet*(Software copyright trial has been passed)*   **04/2021-Present**
Lab: Embedded System Training Base of GUET; Advisor: Xiang Rong
➢ Designed a takeaway cabinet with WeChat mini program, which use MQTT communication protocol to communicate with the takeaway cabinet, realizing the functions of taking food reminder, location tracking and food temperature monitoring

Smart tracing car with Gray scale camera *(Competition in Preparation)*   **08/2022-Present**
Lab: Embedded System Training Base of GUET; Advisor: Tong xuanke
➢ Designed a smart car with TC364 MCU and RT-Thread IoT operating system. Designed motor drive PCB and core control PCB of the smart car.
➢ Regulated the parameters of the smart car to make it reach 2.8m/s under the complex track (including the ring, the fork road and the sharp turn) .Mainly regulates the PID parameters of steering gear, motor current and driving speed

LEADERSHIP EXPERIENCE AND VOLUNTEERING

Assistant head teacher   **07/2022-Present**
Detail:Automation Class 5, Grade 2022, Guilin University of Electronic Technology
➢ Guided freshmen to adapt to college life, plan college studies, develop good habits and assist them to complete the relevant procedures for enrollment
➢ Assist in the planning of class activities, class committee elections and feedback to the school about freshman'demands

Vice Chairman, Embedded Systems and Smart Car Innovation Base   **08/2022-Present**
➢ Organized the design competition of smart car of Guilin University of Electronic Science and Technology. Be responsible for the material preparation, rule making and result adjudication of the creative competition.
➢ Planed the development direction of the laboratory in Embedded product design, robot introduction and UAV basic design

SELECTED SOFTWARE SKILLS

Programming/Markup Language: C,Python,C++
Hardware and Programming: Manual PCB manufacturing, 3D model design and 3D printing
English Level: IELTS 7   CET6 511 CET4 537