Zhouyang Li

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Education Background

Huazhong University of Science and Technology (HUST), China 09/2015-07/2019

- Department: School of Electrical and Electronic Engineering
- Major: Electrical Engineering and Automation
- GPA: 3.91/4.00
- Degree: Bachelor of Engineering (expected in July 2019)

University of Manchester, UK 07/2017-08/2017

- Summer Courses: New Product Development (20 credits)

Standard Tests

- TOEFL: 101 (R30 + L27 + S20 + W24) 09/09/2018
- GRE: 326 (V157 + Q169) + AW4.0 13/05/2018

Awards

- Self-improvement Scholarship, Huazhong University of Science and Technology 2018
- Wuhan Longcheng Scholarship, Wuhan Longcheng Electric Apparatus Works 2018
- Self-improvement Scholarship, Huazhong University of Science and Technology 2018
- Outstanding League Cadres, Huazhong University of Science and Technology 2017
- Self-improvement Scholarship, Huazhong University of Science and Technology 2016

Research and Internship

Control Systems Related Experience:

Single-end Flyback Switching Power Design 06/2018-07/2018

- Designed the circuit (including the feedback control circuit) and the PCB layout.
- Achieved a constant DC output voltage when AC input varied.

Maximum Power Point Tracker Design for PV system 03/2018-04/2018

- Designed the trackers based on algorithms such as P&O and Incremental Conductance.
- Developed the Matlab-Simulink model of PV system, analyzed the performance of the designed trackers and upgraded the P&O algorithm.

Controller of an Inverted Pendulum System Design 10/2017-12/2017

- Built the mathematical model of the nonlinear inverted pendulum-cart dynamic system with 4 teammates, and designed controllers based on PID and LQR control methods.
- Developed the Matlab-Simulink models for performance analysis of the designed controllers.

Microcontroller Programming Related Experience:

Robotic Cart Design 10/2017-01/2018

- Used STM32F4 microcontroller as the core, and designed the periphery circuits.
- Programmed on microcontroller and achieved functions such as line-tracking, obstacle-avoiding, temperature-monitoring, Bluetooth-controlling.

Design of a new Air-conditioning Remote Control 04/2017-04/2018

- Designed an infrared transmitter (containing a microcontroller) fixed on the air-conditioning.
- Developed a smartphone app to control the transmitter through Bluetooth.
- Achieved customizing the working modes of the air-conditioning for a long period through the app.

Student Research Training Program:

Member of Electrical and Electronic Innovation Center, HUST 09/2015-07/2016

- Learned designing circuits and PCB layout using Altium Designer and practiced welding components on the PCB board.
- Learned programming on microcontrollers (mainly STM32F) and some basic control theories.
- Designed traffic light system, controlled motor speed based on PID control method, etc.

Internship:

China Southern Power Grid Co., LTD., Intern 07/2018-08/2018

- Learned the operating mechanism of power grid dispatching automation system.
- Took part in the monitoring of the power grid system.

Skills

Programming: C, C++, C51, Matlab, Verilog, Python
Electric Circuit Design: Pspice, Multisim, Altium Designer, Saber, Protel, Proteus
Others: Solidworks, Photoshop