

Li Hongyi

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EDUCATION

Huazhong University of Science and Technology 2016.09 - 2020.06
Electrical Engineering and Automation, Bachelor Degree, School of Electrical and Electronic Engineering Wuhan

- GPA: 3.91 / 4.0
- Outstanding graduates of Huazhong University of Science and Technology
- Bachelor's Honors Degree awardee (Top 1%, 4 out of 380)
- Relevant Coursework: Electric Driving Control System 96, Design of Electromagnetic Device 98, Principles of Microcontroller and Applications 95, Digital Electronics 97, Analog Electronic Technology 97, Power Electronics Equipment and System 94, Probability Theory and Mathematical Statistics 96

RESEARCH & PROJECT EXPERIENCE

Impact of COVID-19 on Electricity Consumption in Macau 2020.08 - Present

- Analysis of electricity consumption data in Macau, from Jan 2020 to May 2020
- Different sectors show different responses to the pandemic and the restriction measures implemented by the government.
- PI: Prof. Hongcai ZHANG, University of Macau
- Co-author: Prof. Dongdong ZHANG, Guangxi University

Consensus-based Distributed Control for Energy Storage Devices in Isolated Micro-grid 2020.01 - 2020.06

- A consensus-based distributed control algorithm is proposed and the performance is tested on PSCAD.
- The algorithm shows better performance than conventional droop control, with the ability to operate under communication delay and small scale failure.
- Outstanding Undergraduate Thesis.

Online Monitor Device for Insulation of Distribution Cable 2019.05 - 2019.12

- We successfully accomplished the detection of the leakage current in μA -level in the context of A-level working current.
- One patent for invention accepted, "A Method of the Insulation Remaining Life of Distribution Cable".
- We are now working on more accurate device and designing the neural network to predict the state of insulation.

Object Classification and Grab Point Identification 2018.09 - 2019.12

- Robotic arm control based on Ros (Robot Operation System).
- Design the neural networks that can detect objects and identify the grab points.

"We Have Coffee" Online Question System 2018.08 - 2018.09

- I designed the features, interfaces and database of this website.
- Features include login, sign up, answer questions, mark questions and examination.
- The project is based on .NET and C#.

Drone for Item Searching 2017.09 - 2018.09

- Design the control system of the camera. We use the posture of VR glasses to control the head of camera so that the camera can follow user's movement.
- Wireless video transmission based on 5.8 GHz band.

HONORS & AWARDS

Outstanding Graduates of Huazhong University of Science and Technology 2020

Bachelor's Honors Degree in School of Electrical and Electronic Engineering 2020

Outstanding Individual in University Students Innovation and Entrepreneurship Projocet 2018 and 2019, respectively

"Outstanding Student Cadres" of Huazhong University of Science and Technology 2017-2018

"Outstanding Cadres of Communist Youth League" of Huazhong University 2017-2018 and 2018-2019,

COMPETITION EXPERIENCE

"Challenge Cup" National Undergraduate Extra-Curricular Academic Science and Technology Works 2019.03 - 2019.11

- First Prize

"Chinese Society for Electrical Engineering Cup" Electrical Mathematics Modeling Competition 2019.05

- Third-Grade Award

Mathematics Modeling Invitational for Students in Central China 2019.04

- Third-Grade Award

SKILLS LIST

- Modeling and Simulation: Multisim (Proficient), Simulink (Skilled), ANSYS (Basic), Matlab (Basic), Lingo (Basic)
- Programming: Python , C C# (Basic)
- Deep Learning Framework: MXNet, Tensorflow (Basic)
- Development of website and App (Experienced)
- Microcontrollers: Arduino / C51 (Experienced)
- Writing: LaTeX (Basic)
- Robot Operating System (Basic)

LEADERSHIP EXPERIENCE

The Organization Department of the Committee of Huazhong University of Science and Technology 2019.03 - 2020.06

Assistant

- Daily office works.
- Design the questionnaires for Party School Work investigation.
- Management of the "Dang Qi Lin Hang" reading room.

School of Electrical and Electronic Engineering 2017.09 - 2020.06

Class Monitor of Class 1601

- Make progress in improving the class management.
- Win awards in various activities.

School of Electrical and Electronic Engineering 2018.09 - 2020.06

Leader of Publicity Group in Party Building Office

- In charge of the Wechat subscription.
- Manage the publicity work.

School of Electrical and Electronic Engineering 2017.09 - 2020.06

Leader of Assistant Team of Experiment Teaching Center

- Training the assistants.
- Daily management work.

The People's Government of Xiyang County, Yongan City, Fujian Province 2018.07 - 2018.08

Assistant - Government Office

- Use the Office Automation System.
- Supported the commissary in charge of organization.

Student Union 2016.09 - 2017.09

Group Leader - Outreach Department

- Contact with companies.
- Make plans for activities.
- Draft contracts.