

Jih-Shi CHEN

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Education

Fu Jen Catholic University (FJU),

Bachelor of Science in Electrical Engineering 09/2012-06/2016

Gin ling Girl's High School 09/2009-06/2012

Research Interests

Automatic Control System, Signals and System, Computer Vision, Robotics

Selected Courses

Nonlinear System, Embedded System, Introduction to Communication Systems, DSP

Honors & Awards

Presidential Award, Fu Jen Catholic University (**Top 5%**, Spring 2012, Fall, 2012, Spring 2013, Fall, 2013, and Spring 2014)

The 2015 Intelligent Electronics Innovative Applications and Designs Contest Award

FJU EE Special Topic Exhibition Honorable Mention, 2014

The First Innovative Power of Transmission Technology Honorable Mention, 2015

Programming language

C/C++ , Verilog , LabVIEW

Research Experience

Undergraduate Researcher, Intelligent Control and Automatic Robot Lab (ICAR Lab), FJU. 07/2014 - 06/2016, Advisor: Professor Hsin-Han Chiang

Solar Hunter -A Mobile Robot with Self-sustained Power by Solar Energy

- Power supply is one of the most critical components for any mobile robot. Solar Hunter aims to navigate to supply area and charge area by smart control, either by teleoperation manipulation or autonomous path planning.
- Using the A-Star Algorithm, Solar Hunter is able to avoid obstacles and to complete the task through the shortest path. Solar Hunter can interact with human operator and achieve more complex tasks.
- In this project, I developed a software library to stabilize robot walking, and integrated an ultrasonic sensor to avoid dynamic obstacles.