Thai Hoang Loc

CURRICULUM VITAE

Born on Jan, 18, 1995, in Ho Chi Minh city, Viet Nam

Male

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Ho Chi Minh, Vietnam

Education

BACHKHOA UNIVERSITY **JUN 2013 - NOV 2018**

Major: Control and Automation

GPA: 7.67/10 GRADUATION THESIS: 8.5/10

Bachelor Thesis

Title: Automatic watering system
Supervisors: Assoc. Prof. Dr. HO PHAM HUY ANH
Description: The design and implementation of a low-cost system for monitoring and remote control of a greenhouse using fuzzy logic. For the control system a website was designed to visualize the main indicators such as nutrient, temperature, relative humidity, soil moisture and light level...The system was controlled and monitored by the webserver. The webserver was programmed with a fuzzy algorithm by Node-RED to monitor and perform control actions for soil moisture and nutrient. For connectivity to the webpage, an ESP8266 Wemos was used and the local area network was established with Lora wireless technology for data transmission. Thus, it was possible to establish a local area network, monitor and control the greenhouse climate variables manually or automatically. The application designed allowed access to the configuration, monitoring, and control of climatic conditions in the greenhouse. Thus, the use of resources for a gable roof greenhouse prototype was optimized.

Working Experience

COMPANY: 3STONE CO.LTD **JUNE 2017 - AUG 2017**

POSITION: Embedded Software Engineer (Internship)

RESPONSIBILITY: Researching environment monitoring project and exchange data with company's server using Raspberry Pi 3, Arduino and some sensor to collect data with Python, C++ and SQL Programming.

COMPANY: XTEK CO.LTD **DEC 2017 - AUGUST 2018**

POSITION: Embedded Software Engineer (Developer)

RESPONSIBILITY: Automatic system for Green House, Automatic Fire Alarm, automatic dosing nutrient for Hydroponic System.

Research Experience

Object detection **AUGUST 2018 - PRESENT**

Using YOLO (Convolution Neural Network) to detect person then use Face recognition and Deep Sort to track.

Classifying MNIST Digits Using Logistics Regression. **MARCH 2018 - APRIL 2018**

Applying logistics regression to MNIST digits classifying.

Wireless Sensor Network **FEBRUARY 2017 - JANUARY 2018**

Modifying the free ZigBee Stack for the MRF24J40MA module to remote control devices and display data on Web-Server.
Building the Wireless Network architecture like Star topology with Master/Slave protocol.

DC-DC boot buck converter with PID controller **2016**

FIELD OF INTERESTS

- Image Processing
- Pattern Recognition
- Deep Learning
- Intelligent control
- Identification & Control of Nonlinear Systems

Simulation DC-DC converter with Matlab Simulink and design PCB circuit.

Design the chicken incubator **2015**
Using PID controler for control temperature and ON-OFF controller for relative humidity.

PERSONAL SKILLS

LANGUAGES PROGRAMMING:
Understanding and using programming languages:
+C/ C++
+Python
+Matlab
Modeling: Matlab Simulink.
Open Liabraries: Open CV, Tensorflow.

ENGLISH :
+ Reading, can understand a wider variety of texts on topics of personal or professional interest that may consist of some specialized language.
+ Listening, can understand a conversation or a lecture with moderate speed.
+ Writing, can express ideas with simple sentences.
+ Speaking, can communicate in routine situations which requiring a simple and directexchange of information on familiar topics and activities.

Activities

SELF-LEARNING **OCTOBER 2017 - PRESENT**

- Machine Learning by Prof. Andrew Ng on coursera.org.
- Tensorflow for Deep Learning Research by Stanford University on http://web.stanford.edu.
- Convolution Neural Network by Stanford University on youtube.com.

MEMBERS OF " STUDENTS ANDYOUTH" ORGANIZATIONS **JAN 2014 - PRESENT**
"Students and youth" groups have over 4000 members.
- Attend charity blood donation.
Attend volunteers in nursing homes, help the elderly...

VIETNAMESE STUDENTS' ASSOCIATION **JUN 2014 - JULY 2014**
Green Summer Volunteer Campaign.

Honors & Awards

40 years of Control & Automation Robot contest(2nd) **2016**
Programming Line Follower Robot for 40 th year of Control & AutomationContest using ARM Controller.