Kuo-Lun Wang

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OBJECTIVE

To obtain a position of R&D engineer using my profession to help solve a variety of problems for my company and clients.

EDUCATION

National Yang Ming Chiao Tung University(NYCU), Hsinchu

M.S. *in Electrical and Control Engineering* *Feb. 2019 ~ Present*

National Taiwan University of Science and Technology (NTUST), Taipei

B.S. *in Electrical Engineering* *Sept. 2016 ~ Feb. 2019*

Research Interest

Deep Learning, Deep Reinforcement Learning, Robotics, Visual Recognition

COMPETITION

The Light Design Award of Cross-Strait **New Outstanding Awards** **2018**

In this project, we combined the practical abilities of the manufacturer and our imagination to develop new products. Through this competition, it broadens my horizons and makes me understand the gap between practice and theory. I realize I still have to learn a lot.

International Green Life Creative Design Competition **Sliver Awards** **2018**

In order to respond to future environmental policies, the appearance and architecture of future charging devices are designed. In this competition, my teammates were from different categories, so it took more time to discuss. Moreover, it made me realize it was so hard to communicate with someone if he/she is not in my category. In this competition, I am in charge of 3D painting and mainly responsible for showing the designed appearance.

International Society of Mechatronic Engineering **2019**

In this competition, we proposed a new type of environmental trading model "green coin." For example, people can earn green coins when they do something good for the environment. We knew some people have a habit of collecting, so we combined these two concepts to encourage the industries of environmental protection.

PROJECT

✧ **Code-11**

Use C language program to simulate the bar code machine and the code-11 bar code system. Not only to check whether the bar width is within 5% of the error and the lack of start and stop codes, but also to determine whether the check code matches. Writing the test data to evaluate the reliability of the program and let the output reflect the corresponding values.

✧ **Elevator display simulation**

Simulate the display of the building elevator by using matrix keyboard and text LCD components. Based on the values on the matrix keyboard, the values will determine the order of the floors, then the LCD will display an animation with an arrow go up or go down.

✧ **Website design**

I was responsible for the design of the front end of the main page, the user's registration, the back end of the login functions, and the connection between the front and back ends.

Because of the joint development, we used GitHub to help us integrate and modify.

- ✧ **Travel collector**
  This project is to find all the suitable travel plans for users. To be more specific, this project uses Python, BeautifulSoup, and the requests packages to capture travel web pages' information, names, prices, date, and order links. After users enter a budget and place where they want to go, the program will find all fit results.
- ✧ **Travel collector**
  Combining the infix to postfix and stack structures learned from the data structure to improve the calculator, allowing users to enter a line of calculations and immediately know the answer.
- ✧ **Grasping with SSDRL**
  Using Deep reinforcement learning to grasp objects in a cluttered environment to another bin with a self-supervised method, and train a real robot UR5 to execute this manipulate task and release related code on my github.
- ✧ **AOI competition**
  I implement DenseNet to classificate six different situations, then in the test stage, our team gets the better score, and uses several backbones to find the best result, on the final part, we get third place in twenty groups.

SKILLS AND INTERESTS

Programing: C++, C#, Python, AutoCAD, MATLAB, Django, Html, CSS, GitHub, Docker, ROS, linux.
Languages: Mandarin (native), English (TOEIC: 620/990), Japanese (basic)