**Chen YANG**

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**EDUCATION**

**University of Florida** Sept. 2019- June 2021

M.S. in Electrical & Computer Engineering Gainesville, FL

GPA: 3.81/4.0

**Shenyang Institute of Engineering** Sept. 2014- July 2018

B.E. in Electronic Information Engineering Shenyang, Liaoning

GPA: 3.03/4.0

**PROJECT EXPERIENCES**

**Brick Pattern Classification System based on ResNet50** Nov. 2020- Dec. 2020

Group Project | Machine Learning Gainesville, FL

* Preprocess the data set, and modify the image samples by bilinear interpolation
* Import the model parameters trained by the original author, use transfer learning tech to freeze the model’s convolutional layer, add and train the custom fully connected layer to accelerate convergence
* Train the new fully connected layer, and use the divided test set to test. The final recognition accuracy is 97.5%

**Research on LTE Information Transmission Technology** Oct. 2020- Dec. 2020

Independent Project | Wireless Communication Gainesville, FL

* Designed and simulated an information transmission system using OFDM, and analyzed the signal features of each stage
* Explore the signal transmission characteristics in the AWGN channel and Rayleigh fading channel
* Calculate the change of system bit error rate (BER) under different signal-to-noise ratio (SNR) by Monte Carlo method

**Analysis of Face Recognition Tech based on PCA and CNN** Feb. 2020- Apr. 2020

Independent Project | Pattern Recognition Gainesville, FL

* Preprocess the LFW face set and use SVD function to compute eigenvalue of covariance matrices
* Use Principal Component Analysis (PCA) method to compute eigenfaces and reached 97% recognition accuracy
* Build a 8-layers Convolution Neural Network (CNN) with Tensorflow and reach 94% accuracy

**A New Multi-Channel Environmental Temperature Detection Device based on ARM** May 2017- Dec. 2017

1st Inventor | Utility Model Patent: CN206696670U Shenyang, Liaoning

* Design and use Proteus to simulate the control module of the detection device
* Achieve temperature information collection, heating, alarm and other functions with STM32f107 chip
* Expand the device hardware I/O ports to achieve multi-channel detection (up to 160 monitoring points)
* Completed the simulation and welding of the entire circuit with other members

**Intelligent Granary Control System** May 2017- Aug. 2017

Group Project | The Challenge Cup Sci. & Tech Competition: Provincial 3rd Prize Shenyang, Liaoning

* Implemented a circuit with AT89c51 to realize the control function and DHT11 to collect temperature and humidity information
* Completed the design and simulation of the display, linear stabilized power supply and control circuit of the system, using Multisim
* Design the device enclosure with other members using 3DsMax

**MISCELLANEOUS**

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| **Research Interests :** | Computer Vision, Image Processing & Analysis, Machine Learning |
| **Skills & Softwares :** | Python, MATLAB, Java, Multisim, Microsoft Office, Proteus |
| **Languages :** | English (TOEFL102, CET-6), Chinese |

**HONOR AWARDS**

**Achievement Award Scholarship, University of Florida** 2019-2020

**Excellent Graduate**, **Shenyang Institute of Engineering** 2018

**Social Practice Advanced Individual** 2015-2016

**Third-Class Scholarship, Shenyang Institute of Engineering** 2014-2015

**Excellent Student Cadre, Shenyang Institute of Engineering** 2014-2015

Last updated on Jan. 2021