

Chen YANG

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EDUCATION

University of Florida M.S. in Electrical & Computer Engineering GPA: 3.81/4.0	Sept. 2019- June 2021 Gainesville, FL
Shenyang Institute of Engineering B.E. in Electronic Information Engineering GPA: 3.03/4.0	Sept. 2014- July 2018 Shenyang, Liaoning

PROJECT EXPERIENCES

Brick Pattern Classification System based on ResNet50 Group Project Machine Learning	Nov. 2020- Dec. 2020 Gainesville, FL
<ul style="list-style-type: none">● 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 Independent Project Wireless Communication	Oct. 2020- Dec. 2020 Gainesville, FL
<ul style="list-style-type: none">● 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 Independent Project Pattern Recognition	Feb. 2020- Apr. 2020 Gainesville, FL
<ul style="list-style-type: none">● 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 1st Inventor Utility Model Patent: CN206696670U	May 2017- Dec. 2017 Shenyang, Liaoning
<ul style="list-style-type: none">● 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 Group Project The Challenge Cup Sci. & Tech Competition: Provincial 3rd Prize	May 2017- Aug. 2017 Shenyang, Liaoning
<ul style="list-style-type: none">● 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

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