

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
<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	Oct. 2020- Dec. 2020
Independent Project Wireless Communication	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	Feb. 2020- Apr. 2020
Independent Project Pattern Recognition	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	May 2017- Dec. 2017
1st Inventor Utility Model Patent: CN206696670U	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	May 2017- Aug. 2017
Group Project The Challenge Cup Sci. & Tech Competition: Provincial 3rd Prize	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