

**EDUCATION**

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

**PROJECT EXPERIENCES**

<b>Brick Pattern Classification System based on ResNet50</b>	Nov. 2020- Dec. 2020
Group Project   Machine Learning	Gainesville, FL
<ul style="list-style-type: none"> <li>Preprocess the data set, and modify the image samples by bilinear interpolation</li> <li>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</li> <li>Train the new fully connected layer, and use the divided test set to test. The final recognition accuracy is 97.5%</li> </ul>	
<b>Research on LTE Information Transmission Technology</b>	Oct. 2020- Dec. 2020
Independent Project   Wireless Communication	Gainesville, FL
<ul style="list-style-type: none"> <li>Designed and simulated an information transmission system using OFDM, and analyzed the signal features of each stage</li> <li>Explore the signal transmission characteristics in the AWGN channel and Rayleigh fading channel</li> <li>Calculate the change of system bit error rate (BER) under different signal-to-noise ratio (SNR) by Monte Carlo method</li> </ul>	
<b>Analysis of Face Recognition Tech based on PCA and CNN</b>	Feb. 2020- Apr. 2020
Independent Project   Pattern Recognition	Gainesville, FL
<ul style="list-style-type: none"> <li>Preprocess the LFW face set and use SVD function to compute eigenvalue of covariance matrices</li> <li>Use Principal Component Analysis (PCA) method to compute eigenfaces and reached 97% recognition accuracy</li> <li>Build a 8-layers Convolution Neural Network (CNN) with Tensorflow and reach 94% accuracy</li> </ul>	
<b>A New Multi-Channel Environmental Temperature Detection Device based on ARM</b>	May 2017- Dec. 2017
1st Inventor   Utility Model Patent: CN206696670U	Shenyang, Liaoning
<ul style="list-style-type: none"> <li>Design and use Proteus to simulate the control module of the detection device</li> <li>Achieve temperature information collection, heating, alarm and other functions with STM32f107 chip</li> <li>Expand the device hardware I/O ports to achieve multi-channel detection (up to 160 monitoring points)</li> <li>Completed the simulation and welding of the entire circuit with other members</li> </ul>	
<b>Intelligent Granary Control System</b>	May 2017- Aug. 2017
Group Project   The Challenge Cup Sci. & Tech Competition: Provincial 3rd Prize	Shenyang, Liaoning
<ul style="list-style-type: none"> <li>Implemented a circuit with AT89c51 to realize the control function and DHT11 to collect temperature and humidity information</li> <li>Completed the design and simulation of the display, linear stabilized power supply and control circuit of the system, using Multisim</li> <li>Design the device enclosure with other members using 3DsMax</li> </ul>	

**MISCELLANEOUS**

<b>Research Interests :</b>	Computer Vision, Image Processing & Analysis, Machine Learning
<b>Skills &amp; Softwares :</b>	Python, MATLAB, Java, HTML, CSS, Multisim, 3Ds Max, Microsoft Office, Proteus
<b>Languages :</b>	English (TOEFL102, CET-6), Chinese

**HONOR AWARDS**

<b>Achievement Award Scholarship, University of Florida</b>	2019-2020
<b>Excellent Graduate, Shenyang Institute of Engineering</b>	2018
<b>Social Practice Advanced Individual</b>	2015-2016
<b>Third-Class Scholarship, Shenyang Institute of Engineering</b>	2014-2015
<b>Excellent Student Cadre, Shenyang Institute of Engineering</b>	2014-2015