

## EDUCATION

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- **University of Electronic Science and Technology of China (UESTC)** Chengdu, China  
*Bachelor of Engineering, Communication Engineering* Sep. 2015 - Jul. 2019
  - GPA: 3.41/4.00 IELTS:7.0 GRE:319+3.0
  - Relevant Module: Calculus, Linear Algebra, Probability and Mathematical Statistics, Software Technique, Digital Circuits, Signals and Systems, Mobile Communication Systems, Principle of Communications, Information Theory
- **The High School Attached to Northwest Normal University (NWNH High School)** Lanzhou, China  
*Secondary High School* Sep. 2012 - Jul. 2015

## RESEARCH EXPERIENCE & INTERSHIP

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- **Data Prediction Using CEEMD and LSSVM** Oct. 2019  
*Practice Project: github.com/ingingX/FullVision-CEEMD-LSSVM*
  - **Python - Pandas** Used Python lib, Pandas, converting html data to EXCEL sheets for further processing.
  - **CEEMD & LSSVM** Applied CEEMD (Complementary Ensemble Empirical Mode Decomposition) decompose original signal into multiple IMF components, then predicted longer sequence adopting LSSVM (Least Squares Support Vector Machine) method.
- **Simulation of MSK System with Doppler Channel and Performance Improvement** Sep. 2019  
*Practice Project: github.com/ingingX/MSK-Doppler*
  - **Simulink** Built MSK (Minimum Shift Keying) modulation and demodulation systems with adjustable doppler offset as noise, then added in channel estimating system improving SNR of received signals.
- **Research of Transform Coding Based on Image Features** UESTC, Chengdu  
*Undergraduate Thesis, Supervised by Prof. Shuyuan Zhu* Dec. 2018 - Jun. 2019
  - **Task** Designed a new transform coding method substituting DCT in JPEG system.
  - **MATLAB & OpenCV** Utilizing MATLAB, a fast and RAM-friendly JPEG en-decoding system was built. Improved Discrete Cosine Transform algorithm by merging image features into encoding processing. The whole project was partially built by MATLAB and partially by OpenCV.
- **Image Saliency Detection with Bit-map and Bit-plane Slicing** UESTC, Chengdu  
*Team Leader, Supervised by Prof. Bing Zeng, IEEE Fellow* Sep. 2017 - Jun. 2019
  - **Method** Proposed innovative approaches based on bitmap and bit-plane slicing to detect the salient regions of static digital images. Without DL or ML, it resulted excellent when comparing Runtime, Memory Usage and MAE curves with other literatures.
  - **Award & Achievement** Part of the project got a grade of Pass (92/100) for the *National College Students' Innovation and Entrepreneurship Training Program*
- **Image Transmission through a 3.5 mm Audio Cable** UESTC, Chengdu  
*Team Leader, Supervised by Prof. Xiaofeng Li* Nov. 2017 - Dec. 2017
  - **Task** Established a system transferring pictures between two computers (PCs) through a 3.5 mm audio cable (AUX).
  - **MATLAB & Simulink** Designed mod & demod system using DQPSK and coded the whole system on MATLAB and Simulink platforms.
- **Datang Telecom Technology** Chengdu, China  
*Intership* Jul. 2017 - Sep. 2017
  - **Engineer Assistant** Initialized the base station settings and designed and simulated switching algorithm (Dijkstra) to reduce the network congestion.

## EXTRA CURRICULAR ACHIEVEMENT & AWARDS

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- **Contestant Assistant, China College Students Entrepreneurship Competition, 2016**
- **Exchange study in the National University of Singapore, 2016**  
Completed courses in Engineering Management, won the Second Place with research on the business model of Uber.
- **Outstanding Individual in Social Practices Scholarship of UESTC, 2016**
- **Third Place, Mathematical Competition of UESTC, 2016**

## PROGRAMMING SKILLS

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- **Languages** C++, Python, Java
- **Software Platforms** MATLAB, Spyder3, VS