Yilong Sun

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EDUCATION ~~BACKGROUND~~

Southeast University *Nanjing, Jiangsu, China*
~~Sep 2017 - Jun 2021~~
School of ~~Undergraduate~~ Physics Sep 2018 - Jun 2019 ~~China, Jiangsu, Nanjing~~

- **Relevant Course:** *Calculus(94), Optics(98), Electromagnetism(94), Programming and Algorithm(98)*

Southeast University *Nanjing, Jiangsu, China*
~~Sep 2017 - Jun 2021~~
B.E.in ~~Undergraduate~~ Information Engineering Sep 2019 - Jun 2022
~~China, Jiangsu, Nanjing~~
GPA: 3.94 / 4.0 (R~~r~~anking top 5%)~~,~~

- **Relevant Course:** *Partial Differential Equations(96), Physics II(100), Fundamental of Circuits(99), Digital and Logic Circuits(96), Analog Integrated Circuits(95), ~~Digital and Logic Circuit, ASIC,~~ Electromagnetic Wave and Electromagnetic Field(97), Signals and Systems(93), Microcomputer Systems and Interfaces(94)*

RESEARCHES AND PROJECTS ~~/ COMPETITION~~

Design of Wideband Reconfigurable ~~Millimeter Wave~~ Anti-Interference Receiver | *SEU* | *Research A~~a~~ssistant*
Mar 2020 – Present
Advisor: Fengyi Huang, P~~p~~rofessor at School of Information Science and Engineering, Southeast University

- ~~Brief description of research: Design an anti-interference transceiver in MMW using top-down method.~~ Studied and applied the structures of transceiver and anti-interference technique
- Built quantitative relationships between the anti-interference performance and noise figure index of the circuits ~~Work I have done: 暂无（等科研进行到一定阶段了再写吧）~~
- Tested different structures like n-path filter, ADPLL, nonreciprocal filter, etc. to meet the specifications for an improvement on preexisting models
- Patent pending on tape and paper from the research results

Design of Software Defined Radio Simulation Toolbox | *SEU* | *Research A~~a~~ssistant* Nov 2020 – Present
Advisor: Fengyi Huang, P~~p~~rofessor at School of Cyber Science and Engineering, Southeast University

Designed a graphical user interface of Software Defined Radio (SDR) with C++ ~~Brief description of research: solve the problem of inaccuracy in underwater acoustic source localization.~~

- Wrote a program utilizing deep learning algorithms to identify the modulation mode of the signal according to the time domain and frequency domain waveform of the input signal ~~W using profess~~
- Used All-Digital Phase-Locked Loop technology to identify the center frequency of the input signal

RoboCup robot Competition | *SEU* | *Team Member* Aug 2019 – Oct 2019
Advisor: Yingzi Tan, Professor at School of Automation, Southeast University

- Won the First Prize in the entire school in the final competition

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- Designed a simulation program to optimize the firefighting process of the fire brigade, doctors, and police

ACADEMIC / LEADERSHIP EXPERIENCE

Student Union | *SEU* | *Member* Sep 2018 - Jun 2019

- Took the responsibility of the publicity activities of the School of Physics

PROFESSIONAL SKILLS

Circuit design: using Cadence Virtuoso Schematic Editor, Virtuoso Analog Design Environment (ADE) to design and simulate analog and RF circuits; utilizing Simulink in MATLAB to model communication systems.
Programming: having basic grasp of data structure, high-level programming language including C++, Java and MATLAB.