

Rongxiang Wang

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EDUCATION

Bachelor of Engineering, Automation

Sept 2017 – Jun 2022 (expected)

Tsinghua University, Beijing

Cumulative GPA: 3.64/4.00

Coursework: • **Mathematics:** Calculus B(1) & B(2), Linear Algebra (1) & (2), Probability and Statistics, Introduction to Complex Analysis, Measures and Integrals (Real Analysis), Signals and Systems
• **Computer Science:** Data Structures, Computer Languages and Programming, C++ Programming
• **Electronics:** Principles of Electric Circuits, Digital Electronics, Analog Electronics
• **Bioscience and Chem:** System and Computational Neuroscience, Biochemistry, Molecular Biology, Genetics, Physical Chemistry B, Organic Chemistry B

RESEARCH EXPERIENCE

Undergraduate Research Assistant

Oct 2019 - Present

Center for Brain-Inspired Computing Research (CBICR) advised by Prof. Guoqi Li

Tsinghua University

Topic: Brain-Inspired Computing theory based on spike-based neural networks

Contributions: Proceeding……

ENGINEERING PROJECTS

FPGA based Digital Timer

Developed a Digital timer on FPGA platform use Verilog and Quartus II. Users can input the time on the FPGA develop board's matrix key board and start the count down. Users can also use the key board to let the timer return to zero.

Analog circuit based Leaky Integral-and-Fire Neuron model

Presented the Leaky Integral-and-Fire Neuron model using analog circuit. The circuit can perform the spike and leak properties well. The circuit development and simulation is based on Multisim.

Battle City-Liked Game

Developed a Battle City-liked game in C++. In the game player will control a battle vehicle and have battle with vehicles controlled by computer.

ACTIVITIES

TECC-YAPM Social practice Team

Group leader

Organized various events for local students in Lan Cang, Yunnan Province to promote their cultural identity.

School Orienteering Sport Team

Team member

Took part in various Orienteering competition (include National-level competition) on behalf of Tsinghua.

AWARDS

School scholarships for academic excellence 2017-2018

First place in Orienteering in Tsinghua John Ma Cup sports meeting 2018-2019

13th place in hundred meters Orienteering in National University Orienteering Competition 2019

SKILLS

Programming: Python, C++, C, MATLAB, R, Verilog

Software: Quartus II, Multisim

Tools and Frameworks: Git, LATEX, Pytorch

Language: Native Mandarin Chinese speaker. English (TOEFL Cumulative 104), Japanese (N2)