CHUANZHI(VIC) WEN

Personal Website: https://vicwen777.github.io/

EDUCATION EXPERIENCES

South China University of Technology (SCUT) Guangzhou, China
Major: Information Engineering, Bachelor of Engineering (BEng) Sep.2023-
Minor: Computer Science & Technology Sep.2024-
• Overall GPA: 3.61/4.0

SELECTED/ RELATED COURSES

•**Foundation:** Calculus; Linear Algebra & Analytic Geometry; General Physics; Probability & Mathematical Statistics
•**Coding:** Data Structure; Programming in C++; The Method of Mathematical Modeling; **Operating System*
•**Communications:** Signals & Systems; Electromagnetic Fields and Waves; Information Theory & Coding
•**Computer Hardware:** Foundations of Computer; Microcomputer System and Interface Technology
•**Electronics:** Communication Electronic Circuits; Digital Electronics; Analog Electronics; Electric Circuits
** Represent minor course, and all courses can be seen in my transcript*

COMPETITIONS/CONTESTS EXPERIENCES

The 23rd South China University of Technology Mathematical Modeling Contest Oct.2024
• **Overview** The project my team did in this contest was a model to help price houses in foreclosure transactions. My team analyzed several factors that determine the price of a home, combined it with data from previous years, and applied the math and programming knowledge it learned to arrive at a home pricing model that is relatively fair to both buyers and sellers.

Asia and Pacific Mathematical Contest in Modeling (APMCM) Nov.2024
• **Overview** The project of my team in this contest is to study the current situation of the pet industry in China and the world, and analyze the future development trend of the pet industry in China and the world. My team analyzed the current situation of the pet market in China and the world, as well as the future development trend of the pet market, by analyzing several factors affecting the pet market, combining data from previous years, and using the mathematical and programming knowledge learned.

The Interdisciplinary Contest in Modeling (ICM)® Jan.2025
• **Overview** My team's project in this contest is to study the current state of cybercrime around the world and identify the factors that affect a country's cybersecurity. By analyzing the current situation of cybercrime and cyber security construction in the world, combined with the data of previous years, and using the mathematics and programming knowledge learned, my team found out some factors that have a greater impact on a country's cyber security, and provided some suggestions for some countries to improve cyber security.

** More details are available in my additional files or personal website*

ACADEMIC PROJECTS/ WORKSHOPS/ HANDS ON EXPERIENCES

High-level Language Programming Design May.2024
Advisors: **Prof.** **Xue Gao** (The School of Electronic and Information Engineering, **SCUT**)
• **Overview** This is my **workshop** in **C++**. I used my coding knowledge to make a simple **Employee Management System** that can implement some basic functions, such as adding employee information, sorting, adding or removing employees, etc. I've uploaded this project to my GitHub site.
• **GitHub** Managing System

Project of Computer Operating System Dec.2024
Advisors: **Prof.** **Xiaojian He** (The School of Computer Science and Engineering, **SCUT**)
• **Overview** This is a **workshop** in my minor course, and I made a **Linux Operating System** that can implement some basic functions from scratch based on *LFS* (Linux From Scratch) and the Linux code knowledge I have learned. I collected relevant references, downloaded the corresponding version of Linux kernel, software package, tool chain, etc., and then compiled a simple Linux system customized by myself step by step.

Project of Analog Electronics Mar.2025
Advisors: **Prof.** **Yancheng Yuan** (School of Electronic and Information Engineering, **SCUT**)
• **Overview** This is my **workshop** in analog circuits. In this project, I used my knowledge of analog circuits to create a simple **Smart Car Lighting System**. When the surrounding light is strong, the low beam remains always on, and conversely, when the surrounding light is low, the low beam and high beam flash alternately.
** All academic projects/workshops can be seen in my transcript, additional files or my personal website*

WORK/INTERNSHIP EXPERIENCES IN RELATED FIELDS

Wireless Acoustic Radio Cooperative Communications and Application Laboratory, SCUT

Research Assistant Guangzhou, China, Mar.2025-
Supervisor: **Prof.** **Jun Zhang** (School of Electronic and Information Engineering, **SCUT**)

- Conducted systematic literature reviews across databases, Processed data through coding.
- Identified vulnerabilities through stress testing, Proposed design optimizations.
- Delivered milestones via agile workflows, Coordinated with the group members in the project.

RESEARCH INTERESTS

Signal Processing; Deep Learning; Internet of Things (IoT); Wireless Communication.

RESEARCH EXPERIENCE IN RELATED FIELDS

Undergraduate Students Research Program South China University of Technology (SCUT)
Supervisor: **Prof.** **Jun Zhang** (School of Electronic and Information Engineering, **SCUT**) Mar. 2025 -
Research on Environmentally Adaptive Nonlinear Active Noise Control Technology

• **Key Words** Signal Processing; Deep Learning; Noise Control; Algorithms; Environmentally Adaptive

• **Overview** To address the limitations of existing deep network-based ANC technologies in environmental adaptability, this project focuses on developing *environmentally adaptive nonlinear ANC algorithms* to enhance the robustness of ANC systems in dynamic scenarios.

• **Objective** To address the limitations of existing deep network-based ANC technologies in environmental adaptability, this project focuses on developing *environmentally adaptive nonlinear ANC algorithms* to enhance the robustness of ANC systems in dynamic scenarios.

• **Innovation** Existing deep network-based ANC technologies generally rely on fixed network parameters, resulting in poor adaptability to environmental changes. To address these limitations, this project focuses on developing environmentally adaptive nonlinear ANC algorithms based on reinforcement learning, liquid neural networks, and other advanced techniques. These innovations aim to significantly enhance the robustness of ANC systems in dynamic scenarios.

EXTRACURRICULAR ACTIVITIES

Volunteering Work

• Volunteered as a site guide at the Children and Youth Section of Guangzhou Library. July.2024
• Volunteered as a librarian at the Tianhe Library of Guangzhou. July.2024
• Volunteered as a site guide at the SCUT Library July.2024
• Volunteered as an assistant at Guangzhou Government Service Center. Jan.2025

Students Union/Faculty Activities

• Faculty Mock Recruitment Competition (Second Prize) Nov.2024

LANGUAGE & SKILLS & INTERESTS

French: 600 Credit Hour, approximate **CEFR (A2)** **English: TOEFL: 76** (R: 18; L: 16; S: 22; W: 20)

Coding: C++, Python, MATLAB, Linux **Hobbies:** Badminton, News, Gaming, K-pop, Films

CONTACT ME

• **WhatsApp/Telegram/Mobile:** +86 13415363017
• **Email:** 3047434701@qq.com (main, **Webex**); bilisidalin@gmail.com (vice, **Zoom**)
• **Social Media:**