

Quoc Thong Truong

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github.com/QTTruong74

Profile Summary

I am Bachelor student in Computer Engineering (currently 4th-semester). I am seeking a working student position, with possible extension to internship and thesis.

Education

Hochschule für Technik und Wirtschaft Berlin, BEng in Computer Engineering Oct 2023 – Present

- GPA: 1.8
- **Coursework:** Fundamentals of Programming, Computer Organization, Data Structures and Algorithms, Operating Systems, Signal Processing, Embedded Systems

Projects

Mandelbrot

- Developed a graphical Mandelbrot set generator that illustrated the fractal of complex numbers remaining bounded under iteration, featuring zooming, color coding, and configuration saving for an enhanced interactive exploration.
- **Tech Stack:** C, SDL2

Jukebox

- Designed and built 'Jukebox,' a circuit using STM32L432KC, a buzzer, an RGB LED, and push buttons.
- Programmed the system to play three melodies while dynamically changing the LED color to match each note.
- Implemented a feature that enables switching between songs using the push button.
- **Tech Stack:** C, STM32CubeMX

Morsator

- Developed 'Morsator,' a system that receives ASCII characters via UART. It then outputs Morse code on an LED, handling symbol, letter, and word pauses.
- The system supports both uppercase and lowercase letters and displays user input in the terminal.
- **Tech Stack:** C, STM32CubeMX

Skills

OS: macOS, GNU/Linux, Windows

Programming Languages: C/C++, Python, Assembly, VHDL

Interpersonal skills: communication, teamwork, innovation, decision-making, time management

Languages: Vietnamese (Native), English (High Proficiency), German (High Proficiency)

Other technical skills: Markdown, Git, Vim, LaTeX