



Theepakorn Phayonrat

B.Eng in Software Engineering Student @ KMITL

PERSONAL DETAILS

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TECHNICAL SKILLS

Languages

- Rust
- Python
- C/C++
- ARM Assembly

Dev Tools

- Neovim
- Git
- Latex
- Linux

EXPERIENCES

Teaching Assistant (Elementary System Programming)

Jul/2025 - Present

KMITL

- Lecturer in Pre-Session for new 1st year students during Summer 2025
Topics:
 - Rust Basic Syntax and Basic Rules of Ownership
 - Struct, Enum and Impl
 - Some Standard Library features
- On-Site Lab Teaching Assistant
- Lecturer in Final Exam Preparation Session during Semester 1/2025
Topics:
 - Trait
 - Iterator
 - Closure
 - Thread Programming

Teaching Assistant (Computer Programming)

Sep/2025 - Nov/2025

KMITL

- On-Site Lab Teaching Assistant

ACADEMIC AND PERSONAL PROJECTS

*Academic
Projects*

My best of 1st Year

RUSH - Rust Shell Terminal

Aug/2024 - Nov/2024

Elementary System Programming (Rust)

A Terminal Shell with its own GUI written in Rust

GitHub: <https://github.com/Pottarr/RUSH-Rust-Shell-Terminal>

Summary:

- Developed a GUI-based terminal shell with POSIX-like commands.
- Implemented history cache, piping and redirecting into file for the shell.

*Academic
Projects*

My best of 2nd Year

8 Bit CPU Simulator

Sep/2025 - Nov/2025

Computer Architecture and Organization

A 8 Bit CPU Simulation made in Hneemann's Digital

GitHub: <https://github.com/Pottarr/8Bit-CPU>

Summary:

- Built a simple CPU simulation with 5 stages of pipeline.
- Developed an assembler for the CPU ISA written in Python.

*Personal
Projects*

My favorite project currently working on

I ASSUME CPU

Nov/2025 - Present

Assembly and C

Personal project to simulate a CPU in Hneemann's Digital to sequel of the 8 Bit CPU project

GitHub: <https://github.com/Pottarr/I-ASSUME-CPU>

Goals:

- To simulate a working CPU with its own set of instructions.
- To create a compiler and assembler for the languages (ASSUME languages) written in C.

EDUCATION

SMTP Class

2021 - 2023

Triam Udom Suksa Pattanakarn School

GPA: 3.88

B.Eng. Software Engineering

2024 - Present

King Mongkut's Institute of Technology of Ladkrabang

GPA: 3.02

Relevant Coursework:

- Computer Programming
- Elementary System Programming
- Computer Architecture and Organization
- Data Structures and Algorithms
- Web Programming