

Kritarath Thipsoonthonsak (Kiwi)  
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## Profile Summary

Industrial Engineering student with a strong background in Programming, Research, and Management. Have a career goal in Tech Industries with management positions. Seeking for a mentor within the field to gain more experience in Tech Industries. Have multiple hands-on experiences and can use various tools and software in projects. Devoted to work and foster strong relationships with mentor.

## Education

Bachelor of Engineering (Honours) in Product & Industrial Engineering    Sept 2024 – Present  
The Hong Kong Polytechnic University (PolyU)  
GPA: -

Mahidol Wittayanusorn (MWIT) School (Full tuition/ Thai Government funded)    March 2021 – March 2024  
GPA: 3.85/4

## Work Experience

Data and AI Engineer (Intern)    June 2024 – July 2024  
National Digital ID, Thailand

- Design RAG for Customer service chatbot inquiries (prototyped with multiple model (Gemini, GPT 3.5, VertexAI, Azure OpenAI, Bert, etc.)
- Analyze and present logged data (Over 5M query) to Chief Operation
- Visualize analyzed data in real-time using Redash and MongoDB

## Research Experience

A Mathematics Modeling for Thailand's Investment in Renewable Energy    Jan 2023 - Sept 2023

- Conduct a 10 pages Scientific Reports designing a energy policy plan for Thailand utilizing an AIM/Enduse Model calculations aligning with the Paris Agreement 2050

Development of an IoT-Based Knee Support System for Fall Injury reduction in Elderly    Dec 2022 - June 2023

- Developed a prototype with ESP32, MPU 6050 with Machine learning to trigger the mechanism while falling triggering CO2 Cartridge for Airbag system to reduce injury relating to fall.

Study of the optical logic gates using the Mach-Zehnder interferometer    July 2022 - Jan2023

- Designed Logical gates with optical techniques. Successfully created AND, OR, XOR, NOT Gate

### Contact Information

School Email: [kritarath.thipsoonthonsak@connect.polyu.hk](mailto:kritarath.thipsoonthonsak@connect.polyu.hk)

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## Project Experience

Project Director, MWIT Open house 2023

June 2023 – Aug 2024

MWIT Student Committee

- Organized a 2-day event with over 3000 participants
- Coordinated with teachers and 300 staff
- Utilize Project Management tools (Google suite)

Project Director, Pre-MWIT Camp 2023

Sept 2022 – Jan 2023

Pre-MWIT committee

- Organized a 3-day camp with over 200 participants
- Raised over 23,000 HKD to kick-start the Project
- Utilize Project Management Tools & Techniques (Monday, Google Suite)

## Extracurricular Activities and Volunteering Experience

Student President

Jan 2023 – Feb 2024

MWIT Student Committee, Mahidol Wittayanusorn School

- Coordinate between internal teams, Communicate with Stakeholders (teachers), Ensure a well-being in high school life
- Organized Multiple School Events e.g. New Year, Star on Stage, Ocamp'33
- Led Team Meetings, Present project outcomes, and set OKRs

Data Manager

Jan 2022 – Feb 2023

MWIT Dormitory Student Committee, Mahidol Wittayanusorn School

- Designed an automated weekly student dorm score tracker. Presenting the analysis monthly to all student and teacher to improve the quality of life in dorms
- Developed Room reservation system and photo queuing to enhance proficiency
- Collaborated with teams to organize multiple dorm event

## Certification, Awards and Accomplishments

The Most Outstanding Project Presentation

Sep 2023

Galees Tiltshift Challenge

First Placed, VU Hackathon 2023, Aging Society

Jan 2023

Vongchavalitkul University

## Skills

### Software:

- Productivity Platform: MS Office (Excel, word), Google Suite, Overleaf
- Coding: Visual Studio code, GitHub, Microsoft Azure, Google Cloud SDK
- Graphic & Video Editing: Canva, Adobe Photoshop, Adobe Premiere Pro, Adobe Illustrator, Blender, Davinci Resolve
- Project Management tools: Notion, Monday

Programming Language: C, C++, Python, HTML, CSS, JavaScript, Latex

Language: English, Thai

