

# NANPHAT TONGSIRISUKOOL

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## EDUCATION

### King Mongkut's University of Technology Thonburi

Third-Year Computer Engineering Student *GPAX: 3.21*

Bangkok, Thailand

August 2022 - May 2026

## ACTIVITY EXPERIENCE

### Computer Engineering Student Union

KMUTT

#### Prime Minister

As Prime Minister of the Computer Engineering Student Union, I led over 30 members to organize and revive key events and clubs discontinued due to COVID-19 by reconnecting with alumni and the student body. I managed strategic planning, task delegation, and progress monitoring to ensure event success. Known for being an attentive listener, I actively gathered student concerns and feedback, effectively communicating these to faculty to address course challenges and improve the academic environment. My ability to listen and mediate strengthened collaboration between students, alumni, and teachers.

- President of CPE KMUTT Open House 2024: Directed a 100-member team to organize CPE KMUTT Open House 2024, successfully attracting over 500 prospective students and showcasing the Computer Engineering program at KMUTT.
- Head of Activity Comcamp34: Spearheaded Comcamp34 with a 40-member team, crafting engaging activities for 80 participants selected from 1,000 registrations. Achieved a 95%
- Head of Activity Modcom Camp 2023: Orchestrated Modcom Camp 2023 for 100+ first-year students, creating a supportive and collaborative environment that strengthened camaraderie within the cohort.

## SKILLS

Mobile Application Development:	Proficient in Dart, Flutter, and Firebase for building cross-platform mobile apps with real-time database. integration.
React Web Application Development:	Skilled in TypeScript, Next.js, JavaScript, HTML, CSS, and Tailwind CSS to design responsive, user-friendly web interfaces, with experience in Git and database management.
Python Programming:	Experienced in data cleaning, analytics, and visualization using Pandas, NumPy, Matplotlib, and libraries like Request, Math, and OS.
Machine Learning & Image Processing:	Familiar with regression, classification, and clustering models using Scikit-learn and OpenCV; hands-on experience in deploying predictive models.
Basic Big Data:	Understanding of the Hadoop ecosystem, Spark for distributed data processing, and related tools like Hive, Pig, and Kafka.
Programming Languages:	Experienced in C for low-level programming and problem-solving; familiar with ARM Assembly for embedded systems development and Verilog for hardware description and digital design.

## PROJECTS

**Football Player Performance** *Python, Scikit-learn* <https://github.com/thunder121x/FootballPlayerPerformance.git>  
Developed a visualization tool for player performance and regression models to predict player prices with high accuracy. Oversaw the project lifecycle.

**Modmet** *Flutter, Firebase* <https://github.com/thunder121x/modmet.git>  
Designed and developed a mobile app for meetups with real-time location tracking, navigation features, and party creation with friend. Independently managed the full lifecycle.

**CinemaDer** *Flutter, Firebase* <https://github.com/thunder121x/CinemaDer.git>  
Built a mobile app for cinema management with user roles for booking, ticket scanning, and operations also have usher, manager and admin to be one stop service for cinema. Full-stack development.

**EventHub** *React.js, Tailwind CSS, Firebase* <https://github.com/thunder121x/EventHub.git>  
Collaborated with a team to build a workshop reservation system with features like booking, payments, and updates. Contributed to frontend and backend.

**SAFE BOX** *Vivado, Verilog, Basys-3, FPGA* <https://github.com/thunder121x/SAFEBOX.git>  
Designed an FPGA-based digital lock with a bomb-defusal gameplay mechanic, integrating advanced logic principles.

**HandTrackingController** *Python, OpenCV, MediaPipe* <https://github.com/thunder121x/HandTrackingController.git>  
Designed a hand-tracking system for mouse control using gesture recognition and PyAutoGUI, integrating computer vision for touchless human-computer interaction.

## AWARDS

### Participation Final Pitch

OKMD x 88 Learnovation Program (Nov 23)

Developed a predictive subject-matching tool for personalized education, optimizing scheduling and aligning subjects with personalities.

## REFERENCES

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| • <b>Dr. Taweechai Nuntawisuttiwong</b><br>Lecturer, Activity Advisor<br>KMUTT<br>Phone: +66 2 470 9388 | • <b>Ms. Jantima Sirichanyawat</b><br>Head of Digital Business Innovation<br>MSIG Thailand<br>Phone: +66 63 926 9888 |
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