

จ.ส.ต. พลกฤษ แก้วสวี่  
(SM3. Ponkrit Kaewsawee)



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#### PERSONAL PROFILE

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#### EDUCATION

Degree	Field of Study	Graduation Date	Institution
M.Eng	Data Science and Artificial Intelligence	Currently Studying	Asian Institute of Technology, Pathum Thani, Thailand
B.Eng	Electrical Engineering	May 2023	Sripatum University, Bangkok
Vocational Certificate	Electronics	March 2018	Military Technical Training School, Institute of National Defense Studies, Thai Armed Forces Headquarters, Bangkok

## **CURRENT POSITION**

Assistant Instructor, Department of Electrical and Electronics,  
Training and Education Division,  
Military Technical Training School, Institute of National Defense Studies,  
Thai Armed Forces Headquarters

## **EXPERIENCE**

### **Full-time Instructor (2018 - Present)**

Department of Electrical and Electronics, Training and Education Division, Military  
Technical Training School

#### **Taught courses:**

- 20100-1008: Basic Electrical and Electronics
- 20107-2005: Electronic Components and Circuits
- 20107-2119: Basic Electronics
- 20107-2006: Pulse and Switching Circuits
- 20107-2007: Digital Circuits
- 20107-2105: Microcontrollers

### **Guest Lecturer (2022 - Present)**

Department of Mechatronics, Military Technical Training School

#### **Taught courses:**

- 20107-2105: Microcontrollers
- 20107-9003: Computer Programming
- 20108-2111: Embedded Systems

## Tutor

- Army Cadet Exam Preparation Program (2023)
  - Taught Mathematics and English under the Army Cadet Exam Preparation Project (Royal Thai Army, Region 4)
- Military Technical Training School Exam Preparation Program (2018 - 2023)
  - Taught Mathematics, Science, and English

## ACHIEVEMENTS & AWARDS

- First Prize & Popular Vote Award in the Electrical Engineering category, Sripatum University (Dec 20, 2023)
- Presented research on "Development of a Voice Command System for Controlling Autonomous Carts" at EECON-46 Conference (Nov 15-17, 2023)
- Co-researcher on "Autonomous Vehicle for Medical Equipment Transport in Hospitals" for the Thailand New Generation Award 2024
- Completed 30-hour Android Mobile Application Development Training (Jan 27, 2021)
- Developed a document tracking application for the Military Technical Training School using Flutter (April 7, 2021)
- Completed AI & Image Processing Programming Training (Nov 30, 2020)
- Recognized as an Outstanding Trainee for Sacrifice and Interpersonal Skills in the Academic Instructor Course (2020)
- Competed in Autonomous Robotics Competition (Jan 29-31, 2020) at Nakhon Pathom Municipality College
- Served as a Technical Subcommittee Member in the 9th National Skills Competition for Persons with Disabilities (2019) in the Electronics Circuit Assembly category

- Advisor for the 10th CRU Robotics Games (2019) under the theme “Nuclear Fusion: Power Plant Robotics for Humanity”
- Passed the National Occupational Skill Standard Level 1 in Electronics (Sept 30, 2019)
- Awarded High Achiever for highest score in Intensive English Program (June 7, 2019), Thai Armed Forces Headquarters Language Institute
- Participated in ASEAN Skills Competition (2018-2019), Electronics category
- Competed in the 27th National Skills Competition (2018) in Electronics

## DEVELOPMENT GOALS

### Student Development Goals

#### 1. Theoretical Knowledge & Fundamentals:

- Design teaching activities to help students understand fundamental theories in robotics and automation systems.

#### 2. Practical Skills Training:

- Implement lab-based activities and projects, including prototyping and real-world problem-solving experiences.

#### 3. Programming Skills Development:

- Enhance students' programming proficiency to improve system efficiency and safety.

#### 4. Teamwork & Collaboration:

- Foster teamwork skills for successful project execution and workplace collaboration.

#### 5. Continuous Monitoring & Improvement:

- Provide academic advising, tracking student progress, and fostering adaptive learning.

#### 6. Keeping Up with New Technologies:

- Update course content and acquire new tools to align with technological advancements in the industry.

## Self-Development Plan

Timeframe	Goal
2024 - 2026	Apply for a master's degree scholarship in <b>Intelligent Control Systems, Robotics, or Automation</b>
2027 - 2031	Pursue a doctoral degree in <b>Intelligent Control Systems, Robotics, or Automation</b> (domestic or international)
2042	Publish research and apply for an <b>Assistant Professor position</b> at Sripatum University, under the mentorship of <b>Asst. Prof. Dr. Wanayut Saenyen</b>