

Education	CMKL University Bangkok, Thailand <i>M.S. in Technology and Creative Innovation</i> 2022 - 2026 (<i>expected</i>) <ul style="list-style-type: none"> • Advisor: Prof. Fawad Asadi • Research area: Brain Computer Interface and Neuro-marketing
	King Mongkut's Institute of Technology Ladkrabang Bangkok, Thailand <i>B.Eng. in Biomedical Engineering (International Program) (First Class Honors with Gold Medals)</i> 2021 - 2025 <ul style="list-style-type: none"> • GPA: 3.97/4.00, Rank: 1st. • Advisor: Prof. Fong-Chin Su • Co - Advisor: Prof. Chuchart Pintavirooj • Research area: Brain Activation
Projects and Research Experience	NeuroRight a Brain Computer Interface system for Neuromarketing <i>Capstone project at CMKL University</i> May 2025 - Present
	The ERP P300 Source localization using RNN <i>Collaborated with with Dr. Jamie O'Reilly (KMITL)</i> Jun 2025 - Present
	SLAM-based drug delivery robot <i>Capstone project at KMITL</i> Dec 2024 - Apr 2025
	The Brain Activation on Upper Extremity Motor Control Tasks in Different Forces Levels <i>Motion Analysis Laboratory, NCKU</i> Jul 2024 – Nov 2024
	The hand-grip strength testing system for heart disease diagnosis <i>TP-HRG Robotics Innovation Centre, Temasek Polytechnic</i> May 2024 - Jun 2024
	Spectrometric detection of shrimp hemocyanin in food <i>Department of Biomedical Engineering, KMITL</i> Aug 2023 - Mar 2024
Overseas Experience	National Cheng Kung University Tainan City, Taiwan Jul 2024 - Nov 2024 <ul style="list-style-type: none"> • Develop an experiment on the Brain Activation on Upper Extremity Motor Control. • Collected hemodynamic response of 18 healthy young adults using fNIRS and robotic arm as force regulator during 3 difficulty levels (Easy 4 N / Moderate 12 N/ Hard 20 N) and 2 movements (static, dynamic). And found that cM1, cPMC, iPMC, and iPFC show significant HbO increases with higher force demand, and movement main effect in PFC.
	Temasek Polytechnic Singapore May 2024 - Jun 2024 <ul style="list-style-type: none"> • Built a gaming interface prototype for hand-grip strength testing system for cardiac screening: sensor integration, Arduino/ESP32 firmware, circuit design. • Developed a demo and prototype of Flutter kiosk app and delivered end-to-end RD with TP-HRG Temasek Polytechnic.
Research Interests	<ul style="list-style-type: none"> • Neuroscience • Human-AI Interaction • Brain-Computer Interface (BCI) • Human-Computer Interaction (HCI) • Artificial intelligence for medical applications

Awards and Honors	<ul style="list-style-type: none"> • Academic Excellence Scholarship, Faculty of Engineering, King Mongkut's Institute of Technology Ladkrabang 2022 - 2024 • Industrial Internship Abroad Grant, King Mongkut's Institute of Technology Ladkrabang 2024
Publications	<ol style="list-style-type: none"> 1. Kulwattho N, Chieh HF, Lin CJ, Chen WJ, Pintavirooj C, Ma CC, Su FC. The brain activation on upper extremity motor control tasks in different forces levels. Sci Rep. 15. Forthcoming 2025.
Certification	<ol style="list-style-type: none"> 1. Generative AI with Diffusion Models (Nvidia Deep Learning Institute, 2025) 2. Building LLM Applications with Prompt Engineering (Nvidia Deep Learning Institute, 2025) 3. Getting Started with Deep Learning (Nvidia Deep Learning Institute, 2025)
Leadership and Services	<ul style="list-style-type: none"> • Teaching Assistant — Special topic in biomedical engineering AY 2/2024 • Staff — BME Department Activities AY 2023 • Student Volunteer — Light Lab Research Project AY 2/2023 • Teaching Assistant and Staff — School of International and Interdisciplinary Engineering, KMITL AY 2022 - 2023
References	<p>Fong-Chin Su, Ph.D. Chair Professor of Biomedical Engineering Department of Biomedical Engineering, National Cheng Kung University, Tainan, Taiwan fcsu@ncku.edu.tw</p> <p>Chuchart Pintavirooj, Ph.D. Professor of Biomedical Engineering Department of Biomedical Engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand chuchart.pi@kmitl.ac.th</p> <p>Priyakorn Pusawiro, Ph.D. Assistant to the President for Digital and Social Innovation King Mongkut's University of Technology Thonburi, Bangkok, Thailand priyakorn.pus@kmutt.ac.th</p> <p>Jamie Alexander O'Reilly, Ph.D. Associate Professor of Biomedical Engineering School of International and Interdisciplinary Engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand jamie.or@kmitl.ac.th</p>