Hein Htet @ Jeremy

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Education

King Mongkut's University of Technology Thonburi (KMUTT)	Bangmod Thailand
	2022 – Present
Electronic and Infocommunication Engineering (Year 3)	
WEST YANGON TECHNOLOGICAL UNIVERSITY	Hlaing Thar Yar Yangon
	2015-2020
Electronics Engineering	
PRACTICING HIGH SCHOOL YANGON INSTITUTE OF EDUCATION	Kamayut Yangon
	2004 - 2014
INTERNATIONAL LANGUAGE BUSINESS CENTER (ILBC)	Kyitekasan Yangon
	2003 - 2012

Experience

CLASH OF ROBOTS
Founder   Sept 2018 - present
Founded the very first robotics competition held in Myanmar. Coordinated and wrote game rules. Organized the robotics community in Myanmar for many research purposes and STEM education.

KMUTT Deep Learning Lab   Sept 2022 - present
Research Assistant
Focuses on Voice Conversion, GAN, NLP Algorithms, Computer Vision, Diffusion Model, Graph Convolution Networks, MLOps
Collaborated Deep Learning Research with National Science and Technology Development Agency (NSTDA)
Teacher Assistant (Deep Learning Bootcamp)

Singapore University of Technology and Design (SUTD)   June 2024 - present
Student Researcher
Benchmark LLMs such as OpenAI, Llama3, Mistral, Gemini AI for Qualitative Analysis Application by using Ollama, LLM Studio

Singapre Panasonic Research Lab   Oct 2023 - present
Student Researcher
Team leader for ORB-SLAM Refactoring Project. Responsible for refactoring SLAM algorithms, OpenCV, Sparse Bundle Adjustment Algorithms, Linear/Non-Linear Optimization Technologies using C/C++

iyi Robotics Myanmar
Robotics Researcher   Apr 2020 – Jun 2021
Researched the STEM educational robot. Took part in embedded design and control algorithms.

Learners' Club

Robotics Instructor   Sept 2020 – Mar 2021
Translated and wrote the STEM curriculum for state school students.

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ROM Robotics
Mobile Robot Developer   July 2021 – Nov 2021
  Develop robot SLAM algorithms using Slamtech technology.

SSP Ventures Myanmar
Junior Software Developer   Nov 2021 – Jan 2022
  Develop, Research, and implement code in Odoo framework, Git and AWS.

Mµ Space Corp (Bangkok, Thailand)
Electronic Engineering Intern   Feb 2022 – July 2022
  Deployed Satellite Electronic Propulsion Sensor System and currently developing Orbital Control Unit using ST
  Microcontrollers.

Leadership & Activities WYTU

Electronic Student Association
Vice President   Dec 2019 – Dec 2021
Collaborated with other major associations, held seminars and technological competitions for students. Organized Fresher
Welcomes and Teachers' Meetings.

WYTU Electronics Major Makerspace
Mentor   Jan 2020 – Aug 2021
Mentored students for STEM education, held workshops for Electronics meetups and mentored students to enter robotics
competitions.

WYTU Students' Union
General Secretary   Dec 2019 – Mar 2020
Organized the annual university's fresher welcomes, seminars and workshops. Helped finding sponsors for WYTU events.
Founding member of WYTU Students' Council. Held a job fair for graduate students.

WYTU Science & Research Club
Project Coordinator   Feb 2018
Coordinated the workshops and technological seminars for students.

APT Young Professional
Game Designer   Dec 2018
Designed the competition's game arena and head coach of search and rescue robot competition.

World Robot Games Thailand
Myanmar Representative   Aug 2019
Participated as part of Team Myanmar in Thailand. Competed in the Rugby Robot Session.

World Robot Games Myanmar
Head Organizer   Jan 2020
Created new type of robotics game and collaborated with Philippines Robotics Team.

Myanmar covid-19 Disinfection Chamber
Project Leader   Mar 2020
Invented Disinfection Chamber using PIC Micro-controller. Maintained the chamber and donated to many hospitals.

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Singapore Space Challenge
Team Member   Sept 2020 – Jan 2021
Designed and calculated algorithms of Lunar Rover's perception and localization using Robot Operating System and Computer Vision in a Space Rover competition held by Singapore Space and Technology.

Projects

Maglev Train & RFID Train Ticket System
ORBSLAM Refactoring
Voice Conversion For Alaryngeal Speakers using WavLM, KNN VC
Burmese GPT using Llama2 Model and WordPiece BPE Tokenizer
Muspace satellite propulsion sensor system and Orbital Control Unit Software
Slamware Based Indoor Mobile Robot
Covid19 Disinfection Chamber
Early Flood Detection & Avoidance System
Campus Meter (IoT Weather Detector)
Rugby Robot
Smart Home System using PLC Green
House System

Achievements

WYTU Project Show (2017/2018) - First Prize

SIC Thailand (2024) – Gold Award in Thailand

K-LAB Makekathon (2019) - First Prize

World Robot Games Thailand (2019) - Performance Award

Skills & Interests

Technical: C/C++, Python, PyTorch/TensorFlow, Hugging face, LLMs, MLOps, MATLAB, ROS (Robot Operating System), PLC, stm32 arm cortex, Digital Signal Processing, PIC Micro-controller, Arduino, Raspberry Pi.
Language: English
Interests: Mobile and Space Robots, AI, Self-Driving Cars, Football and Basketball

Portfolio Website Link

https://heinhtet1405.wordpress.com