

## Warissara Chawalitsoonthorn

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### Education

#### KING MONGKUT'S INSTITUTE OF TECHNOLOGY LADKRABANG

Bangkok, Thailand

2018 - 2021

- Bachelor of Engineering (B.Eng.), Major in Robotics and AI
- **Accumulate GPA:** 3.84/4.00
- **Relevant Coursework:** Robotics Software Development, Entrepreneurship, Programming Language (C, Python, HTML5/CSS3, JavaScript)

#### SAINT JOSEPH CONVENT SCHOOL

Bangkok, Thailand

2015 - 2017

- **Overall GPA:** 3.80/4.00
- High School Diploma, Science and Mathematics
- Student Council, Chess Club, Public Speaking Club

### Certificates & Achievements

- **1<sup>st</sup> prize for Smart City Week Bangkok (2020)** granted by UN (United Nations), Depa, KRIS, Four Regions Slum Network.
  - Our problem case is about the people in slum do not receive the equality in accessing civil rights and privilege from the government.
  - We innovated the Kiosk for helping slums to access their right from government, finding jobs, and report the problem in their society. We have discussed with people there and they have to fight a lot with injustice so that we will make their voice out loud. Every sound is matter.
- **Win the prize from AWS (Amazon Web Services) Deep Racer Competition (August – September 2020)** – Reinforcement Learning with mobile robot in virtual simulation.
- **Qualified in final round of Finding the professional in AI Competition** – Conducted by Foundation of Science and Technology Council of Thailand 2020
  - Develop the AI chatbot project with Line Platform by using Dialogflow and Line
- **Qualified in 1<sup>st</sup> round Super AI Engineer Thailand (September 2020)** – Competition in order to find the AI Specialist conducted by AIAT.
  - Develop Reinforcement Learning to find the shortest path to the goal (A\* Search Algorithm)
- **Finalist of the Falling Walls Lab Thailand 2019** – conducted by DAAD German Academic Exchange Service
- **1<sup>st</sup> prize Delta's Cup Competition Thailand 2019** – Delta Electronics PCL.
- **3<sup>rd</sup> prize Delta's Cup Competition** – Delta Electronics PCL. Jiangsu, China.
  - Design and develop the Augmented Reality(AR) project for industry solving the 4.0 industrial problem using Industrial Internet of Things(IIoT) – functions to observe and monitor the robot or machine.
- **Nachi Articulated Robot Control Certified** – Nachi Robotic Systems Inc. – Issued May 2019 (No expire)
- **1<sup>st</sup> prize for the Best Innovative Technology for Elder and Disability** (Feb 2019) – National Science and Technology Development Agency (Bangkok, Thailand)
  - Design idea of improving life at nursing home in Thailand – Design a watch with AI technology for real-time detect and warn during the falling or abnormal heartrate of patient.
- **International Seminar on Technology for sustainability 2018** – The Hackathon competition organized by KRIS, Amazon Web Services, Krungthai Bank, PTT Digital Solutions. (Pattaya, Thailand)
  - **1<sup>st</sup> prize for the Best Amazon Web Services Project (2018)** granted by Amazon Web Services (Singapore)
  - **1<sup>st</sup> prize for the Best Sustainability Award (2018)** granted by Kumamoto National Institute of Technology (Japan)
    - Innovate idea to help people and society recover after the disaster and catastrophe – Donation Platform
    - Working on Amazon platform, encourage people to donate more, get more discount to shop at Amazon.

### Extracurricular Experience

#### King Mongkut's Institute of Technology Ladkrabang

(Bangkok, Thailand)

Jun 2020 – Present

- Collaborate with Dr. Poom Konghuayrob and 3 robotics students as a team. To develop the online platform for non-programable users, which I mainly focus on developing the mobile robot module. It aims to control and program the robot remotely and generate the map with auto guiding function to move to the specific point in a real-world environment. We work on scrum and agile process.

- **Relevant technology:** ROS, Linux, JavaScript, HTML5/CSS3, Python
- **Responsibility:** co-Developer, ROS Developer, Web Developer, Presentation
- **Link:** [Phase\[1\]](#) , [Phase\[2\]](#) , [Phase\[3\]](#) , [Phase\[4\]](#)

**King Mongkut's Institute of Technology Ladkrabang** (Bangkok, Thailand) Aug 2019 – Present

- Teaching 3D Engineering Drawing Course, Mobile Robot Course, and Physics Laboratory for Engineering and Non-degree engineering student at KMITL.
- **Relevant technology:** ROS, Linux, Python, Autodesk fusion 360, 3D CAD Design
- **Responsibility:** Teaching Assistant

**Accenture Solutions Co., Ltd**

Bangkok, Thailand

**Deployment Consultant Intern**

Jun 2020 – Aug 2020

- Deployment process and making a testing plan for tester to check the performance of product.
- Plan the testing scenario for User Acceptance Test(UAT) and Performance Verification Test(PVT)
- **Relevant technology:** Microsoft Excel, Banking Industry
- **Responsibility:** Intern, Planning, Communicate with client, Documentation

Highly effective in idea inventing and problem solving in Computing, Robotics and Web design (2018-Present)

- [Color tracking robot](#) – Develop the robot with Raspberry Pi Camera V2 and use the Image Processing to detect the color. **Related technology:** ROS, Python, Computer Vision
- [Line chatbot platform](#) – Develop the chat box on website and connect to Line platform using Google Dialogflow. **Related technology:** Django, Python, JavaScript, HTML5, CSS3
- **Smart Farming IoT project** – Auto control light, water, and humidity in a close environment and connect with smart devices for remote control and observation.
- **Delivery mobile robot** – Mobile robot which can deliver goods from place to place and have interaction with human collaborate with 13 robotic students. I worked on designing the user interface and build on Jetson Nano. And connect with Face recognition library, Dialogflow, and gTTS(Google Text-To-Speech). **Related technology:** Kivy, Python

### Leadership and Activities

**Startup Project (VONIQ)**

Bangkok, Thailand

**Founder – Team Lead**

May 2020 - Present

- Funded by NIA (National Innovation Agency Thailand)
- Pre employment platform for interview, test, and offer the job for applicant. Using data analysis to classify the personality of candidates and match the need for both HR and individual.
- Site: [www.voniq.co](http://www.voniq.co)

**Wizard Library**

Bangkok, Thailand

**Co-Founder – Team Lead**

May 2020 – Present

- EdTech – Online Learning Platform with career path planning that provide the high standard of education.
- Our goal is to inspire people to learn – STEM and Business.
- Team: 4 people ( Chief Executive Officer, Developer, UX/UI Designer, Project Manager)
- Facebook : [Wizard Library](#)

### Volunteer Experience

**United Nations (UN)**

Youth representative of United nations in UN75 Special Exhibit 2020 at Central World, Bangkok, Thailand.

- Big interest in supporting housing and accessibility for Thai people
- Link : <https://www.youtube.com/watch?v=dvte1XuAmF8&t=17s>

**Four Regions Slum Network**

- Hack for slum people by corporate with Four Regions Slum Network.
- I am supporting and helping to develop the technology solution for slum, aiming to improve the poverty of Thai.

### Skills & Interests

**Technical:** Python, C, HTML5/CSS3, JavaScript, ROS, OpenCV, Image Processing, Team management

**Language:** Thai(Native), English(Professional working proficiency)

**Interests:** YouTube, Entrepreneurship, Startup, Content Creator, Boardgames, TV-Series