Thitisart Thitathan

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Areya Busaba village, Phlapphla subdistrict, Wang Thonglang district, Bangkok, 10310

EDUCATION

King Mongkut's Institute of Technology Ladkrabang   **Aug 2019 -Jun 2023**
- Bachelor of Robotics and Artificial Intelligence Engineering
  (International Program)
- GPA: 3.14 (Letter Grade, 4 point)

EXPERIENCES

Internship | PTTEP AI & Robotics Ventures, Rovula   **Jun 2022 - Dec 2022**
Robotics Software Engineer R&D

- Perform real-world simulation to evaluate the AUV docking algorithm systems in ROS2
- Perform 3D coordinate Fiducial maker in ROS2 in underwater environment detection
- Assist in mechanical engineering by criticizing the concept of creation and product prototyping
- Support unit for offshore team

Part-time | KMITL Biomedical Engineering, R&D Department   **Jan 2023 - Present**
Robotics Software/Hardware Engineer

- Perform non-invasive blood glucose monitoring by NIR spectroscopy and 3 sensors techniques
- Perform 3D design of the functional hardware products, analyzing and plotting the correlation of data
- Assist in the hospital patient's data collection for Deep-learning

EXTRACURRICULAR ACTIVITIES & ACHIEVEMENT

7th Delta cup competition | Software/Hardware Engineer, Operation Team Leader   **2021**
(granted by Delta), Qualified the quarterfinals round as top 7 teams in Thailand

- Technology for international smart and green manufacturing.
- Future electricity plan, reducing expense by the use of AI calculating.

Amazon build on | Product Prototyping, Design Engineer   **2021**
(granted by Amazon Web Service, DEPA), Qualified as 2nd runner-up

- Technology for preventing the spreading of covid 19
- Using face recognition to detect the routine of all person that entering ex. shopping mall

YSF_2021 Youth Startup Fund | Software/Hardware Engineer, Operation Team Leader   **2021**
(granted by NIA, TED Fund), Qualified as 2nd runner-up

- Creating the technology that helps people predict the use of electricity
  specifically for B2B,B2C
- Head of creating the startup-tech business called P_GEEK

Startup Thailand League | Software/Hardware Engineer, Operation Team Leader   **2021**
(granted by TED Fund), Representative of KMITL

- PROPERTYTECH & URBANTECH
- Startup Product showcase

SIBB_22, SIBB Startup Fund | Software/Hardware Engineer, Operation Team Leader
(granted by SIBB Startup Fund), Representative of KMITL   **2021**

- Creating the technology that helps people predict the use of electricity
  specifically for B2B,B2C.

Robotics and AI Final Project showcase | Robot Simulation Package, Project Manager   **2021**
Showcase and conclude the final thesis at KMITL

- Generate actual 3D real-world for mobile robot simulation in ROS2 Gazebo and package migration
- Adapt the open-source ROS2 package in the simulation ex. 2D/3D camera, Slam, Nav2
- perform a test run of the project and instant of this project
and also for educational purposes

PUBLICATION (IN PROGRESS)

**Integrated finger sleeves for machined-learning-based non-invasive blood glucose   2023
monitoring by NIR spectroscopy and sensors techniques**
Assoc. Prof. Dr. Wibool Piyawattanametha, Biomedical Engineering KMITL

- The real-time non-invasive glucose predicted value is displayed on an OLED screen or sent either serially or wirelessly to a computer for making a record.
- Predicting the value of blood glucose by collecting NIR, GSR, TEMP, and BMI values in time series and calculated with the help of linear regression

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SKILLS

CORE SKILLS

Robotics & AI
- Mobile robot and simulation, ROS2, Gazebo
- Machine learning, CNN, linear regression
- Ladder logic, PLC, electro-pneumatic

Fabrication
- 3D Computer-aided design, Autodesk, Blender
- Reverse engineer, 3D scanner, mesh
- Additive manufacturing, 3D printing
- Subtractive manufacturing, CNC, laser cut
- Maker skills

Enterprise
- Online working platform, Slack, Clickup, Office
- Program, Office , Excel

SOFT SKILLS

Team management
- Be able to manage tasks and planing
- Manage a roll of members

Problem sloving
- Be able to solve problems by prioritizing and with losing less or none of work quality

Creative thinking
- Thinking outside the box!
- Seeking things or methods that are not harder but easier to do which give the same result

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LANGUAGES

Thai   Native

English   Work proficiency

German   Beginner

MORE INFORMATION

Home

A Bit About Me

Thitiport

https://www.thitisart-port.com