PHURIN NARARAT

Automation Engineer | Aspiring Full Stack Engineer

+66 62-354-5736
phurin.nrt@gmail.com
github.com/phurin-git
linkedin.com/in/phurinnararat
Bang Bo, Samut Prakan, Thailand

SUMMARY

Enthusiastic Automation Engineer transitioning to Full Stack Engineering, with a proven track record in programming and integrating complex systems. Skilled in system testing, validation, and performance optimization. Committed to lifelong learning and passionate about coding. Adept at leveraging programming knowledge to solve complex problems and drive innovation. Excited to bring a self-reliant and continuously learning mindset to Full Stack development, utilizing expertise in various programming languages and tools to build robust and efficient applications.

EXPERIENCE

Automation Engineer

Somboon Siasun Tech Co.,Ltd.

06/2023 - 07/2024 | Bang Chalong, Samut Prakan, Thailand

www.somboonsiasuntech.co.th

- Install and wire ASRS electrical components (cabinet, cables, sensors).
- Program PLC and HMI for system control.
- Integrate ASRS with WMS, WCS, and ERP systems.
- Conduct hardware and software testing.
- Validate system performance and accuracy.
- Train customers on ASRS operation and maintenance.
- Manage ASRS go-live and monitored initial performance.

Internship

Mitsubishi Electric Factory Automation (Thailand) Co.,Ltd.

08/2022 - 11/2022 | Phra Khanong, Bangkok, Thailand

- Learn and use ICONICS GENESIS64 SCADA software, sharing techniques with team members.
- Provide user manuals for ICONICS GENESIS64 to customers.
- Design SCADA prototypes for decarbonization projects.

EDUCATION

M.Eng. in Artificial Intelligence and Internet of Things

Thammasat University

08/2024 - Present | TUXSA, www.skillane.com

B.Eng. in Robotic and Automation Systems Engineering

GPA 3.65 / 4.0

Kasetsart University

07/2019 - 04/2023 | Sriracha, Chonburi, Thailand

- First Class Honors

PROJECTS

Michelin LMC1 ASRS9-11 & LMC2 ASRS13-16

08/2023 - 05/2024 | Michelin Laem Chabang

Installation and commissioning of additional ASRS units for storage tires at the LMC1 and LMC2 factory. This project involves adding four new ASRS units, including lines 13 to 16, to the existing ASRS system.

SKILLS

HTML | CSS | JavaScript | TypeScript | React | Node.js | Express.js | C | Go | Java | Python | Swift | MSSQL | Selenium | Linux

Logical Thinking | Problem-Solving | Decision-Making | Time Management | Teamwork | Project Management | Patience | Attentiveness

STRENGTHS

T-Shape Skilled

Combining deep expertise in system integration and programming with broad knowledge across multiple technologies.

Responsible & Dependable

Completing tasks ahead of schedule or on time, and promptly resolving any issues that arise, ensuring swift resolution and readiness.

PASSIONS

Lifelong Learning

A passion for lifelong learning, transitioning to Full Stack Engineering. Skilled in system integration, programming, and problem solving, with a commitment to continuous improvement and innovation

Merge different technologies

Finds joy in the puzzle of combining different technologies to achieve a unified goal.

ACHIEVEMENTS

Improved Commissioning Efficiency

Developed a Python scripts that can automate repetitive validation tasks, reducing manual effort and minimizing human error.

Contest Third Place

Secured 2nd runner-up in the Smart Agricultural Robot Contest 2021 for the development of a robot tailored for logistics and warehouse operations.

PROJECTS

Robot control by using Motion Capture and MQTT Protocol

01/2023 - 05/2023 Kasetsart University

Developed wireless control of robot manipulator using human motion, aiming to seamlessly integrate motion capture, robot control, and real-time visualization.

SCADA for Decarbonization (Prototype)

10/2022 - 11/2022 Mitsubishi Factory Automation Thailand) Co.,Ltd.

Developed a SCADA system for industrial clients to comply with TGO policies related to international emissions trading schemes, aimed at reducing greenhouse gas emissions. The system is designed to monitor real-time energy resource consumption and calculate carbon credit profits based on historical consumption data.

3DoF Robot Kinematics and Dynamics Design

04/2022 - 05/2022 Kasetsart University

Designed with a focus on pick-and-place tasks and considering defined load and workspace parameters, this system utilizes Python SymPy to calculate Forward and Inverse Kinematics, Jacobian matrices, and Dynamic Equations using the Euler-Lagrange approach. The selection of actuators and transmission systems is optimized for enhancing robot performance and efficiency in task execution.

Object Inspection by using Python OpenCV

12/2021 - 12/2021 Kasetsart University

This project focused on developing algorithms to detect and analyze the shapes and dimensions of objects, measured in millimeters, within video streams. Its goal was to enable accurate real-time inspection processes, specifically for applications in quality control, thereby enhancing operational efficiency and precision.

MY LIFE PHILOSOPHY

"Self-reliance is the best reliance" or **"Rely on yourself"** means that the most dependable way to learn is to depend on your own e orts because you can't always count on others to help you. When no on is available to assist you, and in those moments, you need to rely on
your own abilities to figure things out.

"Better late than never" or **"The best time to plant a tree was 20 years ago. The second best time is now"** means that it is better to start something late than to never start it at all.

Time is money means that investing time in learning new things is as valuable as investing money. It emphasizes the importance of not wasting time and continuously seeking opportunities to learn and grow. Just as wasting money can lead to missed opportunities and financial loss, wasting time can result in missed chances for personal and professional development.

Give a man a fish, and you feed him for a day; teach a man to fish, and you feed him for a lifetime means that providing someone with the skills or knowledge to do something for themselves is far more valuable than simply giving them a temporary solution. It emphasizes the importance of self-su ciency and long-term problem-solving over short-term fixes.

Rakwittaya School Pran Buri, Prachuap Khiri Khan, Thailand

ACHIEVEMENTS

Decreased System Downtime

Reduced ASRS system downtime through efficient troubleshooting and fault prevention programmed.

REFERENCES

Shi Jigong

shijigong@somboonsiasun.co.th

Shi Keke

shijikeke@somboonsiasun.co.th

Yannadech Khwankityotha

yannadech.k@somboonsiasun.co.th

Asst. Prof. Pongsakon Bamrungthai

pongsakon@eng.src.ku.ac.th

Songchai Jitpakdeebodin

songchai@eng.src.ku.ac.th