

ONUMA PLUBPLEE

EDUCATION: SRINAKHARINWIROT UNIVERSITY

June 2, 1997 – March 17, 2001

Bachelor of Electrical Engineering GPA 2.58

WORK EXPERIENCE

A) The Project Consultant for the MRTA Yellow Line Project (PCYL)

Position : A Freelance Intermediate Electrical Engineer

Service Duration: 2021- Present

- Experience in earthing, bonding, building management system (BMS), SCADA & protection of various railway electrical power supply subsystems complied with EN 50122-1, BS 7671, BS 7430, IEC 60364, EN 62305-3, EN 62305-4 etc, monitoring project progress, coordinating activities, review drawings and approval specification documents.
- Sufficient comprehension of design electrical distribution system (HV and MV), monitoring the Testing and Commissioning Program for PSY system (Subsystem Integration Test Procedure, SSS, UPS, SCADA, ATC, Trial Run etc.) that complied with the operational requirement of the MRTA Yellow Line Monorail Project.
- The Power supply system (PSY) of the Yellow line is as follows:
 - Two Bulk Substations (BSS) of 115 kV received electricity energy from the MEA by dual redundant feeders and stepped down to 24 kV via the Power Transformer to distribute power of 24kV/2x 585 V. AC to Traction Substations (TSS) and 24 kV/ 400V.AC for Service Substations (SSS) to Stations, OCC and Depot .
 - TSS and SSS shall be dual redundant feeders are separated of 24 kV by TSS will be transformed of 24kV/ 2x585 V.AC to 750 V.DC using the Traction rectifier which supplies a positive current to the conductor rail and a negative current to the return rail.
 - Service Substations (SSS) supplies electricity of 400 V.AC to E&M work such as Chiller, Cooling Tower, Lift, Escalator, Lighting, UPS, the Fire Alarm System etc. and M&E work such as AFC, COM, PSD, SCADA, SIG etc.



PROFILE:

My work experience as Project Sales Manager at Kumwell Corporation PLC. , helped develop my knowledge of Lightning & Grounding system. Kumwell is the leader of lightning protection and grounding systems that provide safety to infrastructure such as power plants, solar farms, sky trains, petrochemical plants, building and telecommunication.

CONTACT:

PHONE: +66 (0) 90-995-6232

E-MAIL: Rinyarat8@gmail.com

ADDRESS: 5/2484 Prachachuen Village, Samakee Rd, Nonthaburi, 11120 Thailand

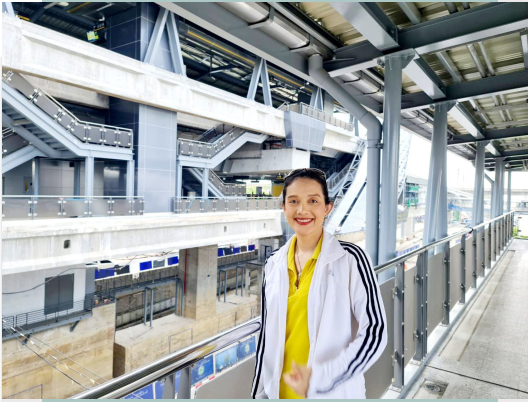
DETAILS:

Date of Birth : 23 Feb 1979

Nationality : Thai

Gender : Female



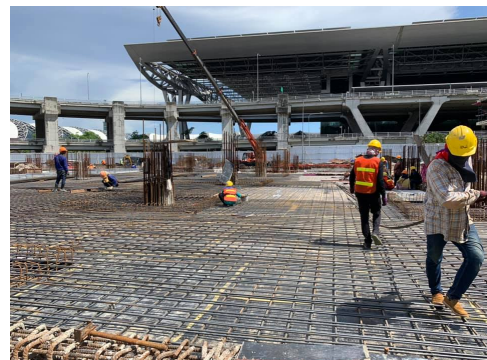


B) Kumwell Corporation PCL.

Position: Project Sale Manager

Service Duration: 2017- 2021

- Experience in advising on the products specifications and precise installation in Lightning and Grounding Protection Systems (LPS), Protection against Lightning and Electromagnetic Impulse for building, Track Circuit Bonding for Red Line Mass Transit System Project according to IEC 62305-1, 62305-2, 62305-3, 62305-4, 62561, 61000. Evaluated the comparative price between Stud and Exothermic Welding methods to benefit the economic value.
- Experience in advising and precise installation on earthing, bonding & stray current protection of both electrical power supply subsystems (AC and DC), signaling system, communications systems etc, according to protective provision relating to electrical safety and earthing.
- Strong supervisory and precise installation on Static Earth Receptacle system according to Airport design and Engineering Standards like the International Civil Aviation Organization (ICAO) and the Federal Aviation Administration (FAA). Prepare products specifications for the consultants to approve the airport grounding improvement project at Donmuang Airport & Suvarnabhumi International Airport Phase 2.
- Ensure all electrical equipment delivery contracts complied with drawing and specifications according to electrical engineering standards.





Projects Name:

1) Bang Sue Grand Station (Project Value: 34,142 MB.)

Project Value of Grounding & Lightning Protections System: **30 MB.**

Project Type: **Mass transit**

2) The MRT Orange Line (east): Thailand Cultural Center – Min Buri (Project Value: 79,221.24 MB.)

ProjectType: **Mass transit**

3) The Green Line (Project Value: 27,819 MB.)

Project Value of Grounding & Lightning Protections System: **20 MB.**

Project Type: **Mass transit**

4) MRT Pink Line (Project Value: 53,490 MB.)

Project Value of Grounding & Lightning Protections System: **26 MB.**

Project Type: **Mass transit**

5) MRT Yellow Line (Project Value: 53,490 MB.)

Project Value of Grounding & Lightning Protections System: **26 MB.**

Project Type: **Mass transit**

6) BTS Gold Line (Project Value: 3,840 MB.)

Project Value of Earthing, Bonding & Lightning Protections System: **20 MB.**

Project Type: **Mass transit**

7) Suvarnabhumi International Airport Phase 2

(Project Value: 3,000 MB)

Project Value of Grounding & Lightning Protections System: **20 MB.**

Project Type: **Airport**

8) The Forestias (Project Value: 125 Billion Bath.)

Project Value of Grounding & Lightning Protections System: **50 MB.**

Project Type: **Building Complex**

9) Supalai Projects (Project Value: 5,000 MB.)

Project Value of Grounding & Lightning Protections System: **25 MB.**

Project Type: **Building**



Projects Name:

10) Ground system improvement project Don Mueang Airport:

(Project Value: 500-700 MB.)

Project Value of Grounding & Lightning Protections System: 6 MB.

Project Type: Airport

11) Sappaya Saphasathan (Project Value: 5,000 MB.)

Project Value of Grounding & Lightning Protections System: 25 MB.

Project Type: Parliament Building

C) Bank of Ayudhya Public Company Limited:

Position: Business Development Officer Service Duration: 2016

- Providing advice on SME loans, Home loan, Insurance to entrepreneurs. To make friendly relationships with real estate owners to provide funding for project expansion.

D) Siam Commercial Bank.:

Position: Telesales Service Duration: 2015-2016

- To be a financial advisor for exclusive customers' s Siam Commercial Bank.
- Motivate customers to see business investment opportunities.

E) Working with Stock Markets / Investor:

Service Duration: 2003 - 2015

Working as an entrepreneur in the Stock Markets Investments.

TRAINING

- SAP (System Applications & Products in Data Processing) 2020
- Data analytics for Business 2020
- Lightning and electromagnetic impulse protection system by Kumwell 2019
- Earthing, Bonding & Grounding system 2018
- Continuous power system (UPS) and power quality control (www.mect.or.th) 2018
- DISC training program by Bank of Ayudhya Public Company Limited. 2016
- Needs based selling course 2016
- Six sigma white belt training 2016
- Cross-selling course 2016





Attendance: 2021- Present

- The Netherlands - Thailand Water Dialogue: The Role of Water System in Urban Resilient City Planning 12 September 2022 at the Netherlands Embassy in Bangkok
- CAFO39 Conference of the ASEAN Federation of Engineering Organizations (CAFO 39) " Engineering & Climate Change" 29 th Nov-3 rd December 2021.at Pertubuhan Ukur, Juratera dan Arkitek (PUJA), Brunei Darussaia.

The proposed activities to be planned.

- STEM Program
- Regular Talk shows amongst ASEAN speakers.
- Active activities on community service project.
- Gathering with the young generation.

CAFO39 Conference was a brainstorming session. Planning for young generations to use Stem programs to develop the country in science, technology, engineering, mathematics to create innovations for the future world.

STEM is the holistic approach of science, technology, engineering, and mathematics. Integration of STEM is the key to creating various innovations for the convenience of humans and can replace routine labor. Such innovations are Quantum Physics, Aerospace technology, Energy management system, Biomolecular Science & Engineering, High speed Railway System, Telecommunication Information System, Big Data Analytics, Intelligent Agriculture system, etc.



Host the show “ Kui Ha Sa Ra” with Engineering Institute of Thailand

Guest speaker: K.Kridsada Teerasupaluk

Moderator: K.Onuma Plubplee

Trends of electric vehicle cars and charging station

expansion in Thai Topics: • Why we should to change EV car?

1. How are Li-ion battery trends?
2. Who are the investors of EV car in Thai and oversea?
3. How about the readiness of EV charging stations?
4. How to consider the first EV car?
5. How to transform used car to EV car?
6. Electric charging station installation standards and safety in the residence, oil station, department store etc.



TESLA vs THE WORLD



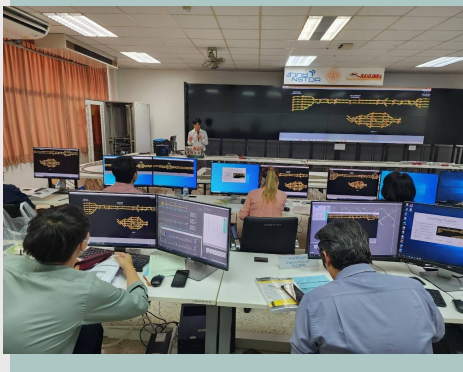
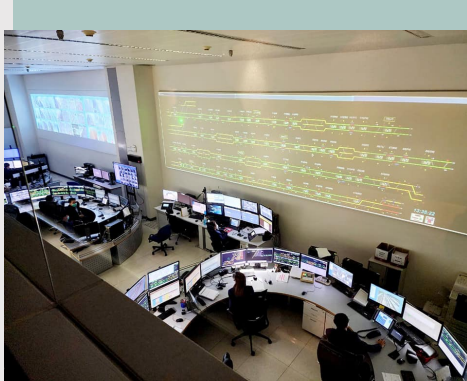
“แนวโน้มการเติบโตของรถยนต์ไฟฟ้า EV และความพร้อมของสถานีชาร์จ ในประเทศไทย”



Attendance: Vistec 2021

- Participated in a study tour project with a group of outstanding qualified engineers at Vistec within the EEC, Rayong Province. The executive team gave opening remarks and introduced the vision of becoming a world-class center for frontier science & innovation hub and mission is to create a advance research and education platform to empower the innovation impact potential for Start-up Incubator.
- Word 4.0- World of interdisciplinary
OECD 40 Key technologies for the future
 - Digital(Robotics, Blockchain,IOT, AI,Big Data Analytics, Quantum Computing)
 - Biotechnologie(Directed Evolution,Synthetic BioDesign, Stem Cells,)
 - Energy+ Environment(Battery, Superconductor, Renewable Energy)
 - Advaced Material (Carbon Nanotubes + Graphene, Nanomaterials)
- Visited the Centre of Excellence for Energy Storage Technology (CEST) which is received research funding by Thai government, the triple helix model-university and the energy industry to encourage the enlargement of the EV automobile industry, IT & computer and Green Energy .





Attendance: Railway System Operation: ROS 3 2023

• Railway System Operation

Section

1. Fundamental Railway Signalling System
2. Evolution of Railway Signalling System
3. Rules and Regulation for Railway System
4. Establishment of Safety Standards for Railway Operations using Block System and Interlocking System

5. Types of Railway Signalling System

6. Automatic Train Protection (ATP)

- European Train Control System (ETCS) Level

I,II,III

7. Introduction to Signalling & Train Control System

8. Advanced Train Protection System

9. Signalling Standards and Application

10. ERTMS/ETCS System

11. Operations (Normal, Degraded, Emergency)

12. Timetable

13. Learning tour of Railway Management Control System at BTS, Mochit Station

14. Workshop: Learning for Railway Management Control System at Faculty of Engineering, King Mongkut's Institute of Technology Ladkrabang.

- Preliminary Arrangement of Railway Schedules

- Simulation of Primary Railway Management and Control



Siemens's webinars:



- Modern traction motor design using an integrated simulation approach
- Develop reliable and energy-efficient electric machines using simulation
- NVH of Electric Motors - from electric current to noise
- Smart Manufacturing for Electronics
- Intelligent Manufacturing in Aerospace and Defense
- Towards a Virtual Nuclear Reactor
- Gas turbine design
- The value of smart manufacturing in automotive
- Capital Asset Lifecycle Management
- EE Architecture and System Integration

Professional Licenses:

2024 Project Management in Practice, training generation 40 from The Engineering Institute of Thailand Under H.M. The King's Patronage.

2024 License for Professional Practice, Fellow Engineer Class, No. Por. For. Kor. 27717, Electrical Power Engineer from Council of Engineers of Thailand

2023 Railway System Operation: RSO3 from National Science and Technology Development Agency (NSTDA)

2020 Preparing for the General Civil Engineer Promotion Examination from Project Planning Service PCL

2019 License for Professional Practice, Fellow Engineer Class, No. Por. For. Sor. 12731, Telecommunication Engineer from Council of Engineers of Thailand

2018 Continuous power system design & emergency power systems and system reliability. From MECT, Thailand

