CHONG CHIA-HSING (JUSTIN)

Consultant (Splunk), Software Developer, Master of Comp Sc, Engineer, Physics Graduate
+6013 5836 818
ChiaHsing.Chong@outlook.com

SKILLS

Splunk, Python/Django, HTML/CSS/Javascript/jQuery/RequireJS, Dashboarding/Business Analytics/XML, Version Control/GitHub/Git, Documentation/RFC Plan, MySQL, Linux Administration, REST API Integration, Agile, Java, Splunk ITSI, TLS/SSL, Sci-kit/NumPy/Pandas, PHP.

PROFILE SUMMARY

Associate Consultant in providing **consultation and development services for Splunk Enterprise** monitoring system for customers in **banking sector**. The aim of the services provided is to increase the ROI of the system, optimize the system based on new requirements and business use cases for the customer's operation team and management. Previously employed as **Equipment Engineer** in solar cell manufacturing plant for **new technology, Automated Guided Vehicle (AGV), adoption and deployment** on the manufacturing machinery which was preceded with employment in industrial automation as **System Engineer for** cryogenic gas, civil engineering, and solar cell industries to provide **PLC and SCADA program development, deployment, and maintenance services**.

PROFESSIONAL EXPERIENCE

Isatec Sdn. Bhd. **Associate Consultant**	February 2022 - Present
• Assess customer Splunk Enterprise system by generating monthly, quarterly, and monthly reports and analysis. • Optimize the system for better utilization of resources (License, data storage, custom built applications, etc.) • Improve customer experience on Splunk Enterprise system by troubleshooting and debugging of the potential fault and improper usage of the system. • Maintain the system and application version by updating to latest releases and renew the security certificates for the Splunk web browser access.	• Dashboard creation and modification based on end users' requirements. • Add-on or module development for Splunk to ingest or integrate data from different IT platforms. • Create services and analysis dashboard using Splunk IT Service Intelligence (ITSI). • Provide visibility to business units by integrating different data sources for end-to-end monitoring.
Maxeon Solar Technologies (Sunpower Malaysia Manufacturing Sdn. Bhd.) **Equipment Engineer**	October 2021 – January 2022
• To work with Manufacturing, CIM, Equipment Vendor together with Equipment Technicians to optimize and maintain Factory Automated Guided Vehicle (AGV) @ Intelligent Guided Vehicle (IGV) & Equipment Automation performance to ensure Safety, Cost, OEE & Quality goals set by the company continuously improves.	• Liaising between departments to obtain the necessary components or information for the technology implementation. • Meeting with stakeholders to plan and execute the next milestone for the project at hand. • Handle any ad hoc or impromptu incidences or requests from vendors and stakeholders.
Sermax Automation Sdn. Bhd. **System Engineer**	May 2019 – October 2021

• Project design, planning, coding, deployment, and commissioning.
• System troubleshooting and debugging
• Technical and Engineering support for sales and customer
• Projects:
   ○ PNB118 District Cooling Plant
	• PLC (Industrial Control Logic) and SCADA (Human-Machine / Graphical Interface) Programming
	   ○ Languages: Structured Text (ST), Sequential Function Chart (SFC), Ladder Diagram (LD), Function Block Diagram (FBD).

CHONG CHIA-HSING (JUSTIN)

Consultant (Splunk), Software Developer, Master of Comp Sc, Engineer, Physics Graduate
+6013 5836 818
ChiaHsing.Chong@outlook.com

Automation and Control System ○ Air Liquide Singapore J3 Helium Trans-filling System ○ Air Products Gas Detector Control Panel ○ LONGI Solar Cell Manufacturing Phase 3 SCADA	○ ABB 800xA Distributed Control System ○ Siemens SIMATIC TIA Portal ○ AVEVA Intouch HMI ○ Schneider Electric EcoStruxure

EDUCATION

Universiti Malaya (UM) Master of Computer Science (Applied Computing)	October 2022 – Present

- Machine Learning and Algorithm Research
- Thesis: Density-Based Initialization Method for K-Means Clustering with Rough Set Theory

Universiti Tunku Abdul Rahman (UTAR) Bachelor of Science (Honours) Physics	January 2016 – May 2019

- Advanced knowledge in Electromagnetism, Classical Mechanics, Quantum Mechanics, Algebra, Statistics, Thermodynamics, Atomic Physics, Optoelectronics, Microelectronics and Semiconductor Physics.
- Final Year Project or Thesis: Dielectric Characterization of Foamed Concrete for Density and Compressive Strength Evaluation (http://eprints.utar.edu.my/id/eprint/3369)

PROJECTS OR ACCOMPLISHMENTS

February 2022 - Ongoing	**Splunk System SLA - Consultation, Maintenance, and Expansion** Provide consultation and services in maintaining customer's Distributed Splunk System. New requirement fulfilment in ingestion of log data for monitoring and dashboard building for business analytics or DevOps diagnostics and debugging. Optimizing the system from configuration for the indexes to creating new knowledge objects to aid in data analysis and visualization. Creating customized application or add-on for grouping of the configurations (data ingestion, data parsing, etc.) and knowledge object (XML, CSS, JavaScript) for each use cases (departmental).
January 2020 - October 2021	**Merdeka 118 District Cooling System Automation** Creation of Control Automation and Graphical Interfaces with ABB 800xA DCS software. IOs involved are around 1000 with five chiller units, 8 cooling towers, pumps, valves, pressure transmitter, flow transmitter, temperature transmitter etc. Protocols involved are Modbus and Profibus. PLC programming languages involved are ST, LD, FBD, and SFC. Coding approach or strategies used are object-oriented programming and system-of-systems. Other creator: Chua Zoe Sern
October 2020 - April 2021	**Air Liquide Singapore J3 Helium Trans-filling System** The creation of a quality control system for Helium gas. Each batch of Helium is passed through the Servomex analyzers and AGC NovaCHROM for the quality testing. The results of the analysis are recorded accordingly. Latest Siemens SIMATIC PLC (S7-1200) and HMI (MTP1000) are used for the system. Another creator: Chua Zoe Sern
September 2020	**Air Products Gas Detector Control Panel** Programming of Zelio Logic Smart Relay for controlling the alarm reporting responses at

	the local control panel. The responses are alarm indicator light, revolving light, buzzer, and flashing light. There are 5 possible alarm conditions and are separated into 2 categories of alarms which are non-critical and critical alarms.
December 2019 - January 2020	LONGI Sarawak Solar Cell Manufacturing Phase 3 Creation of SCADA located in the control room for gas monitoring system and chemical distribution system with Wonderware Intouch 2017.
July 2018 - May 2019	Dielectric Characterization of Foamed Concrete for Density and Compressive Strength Evaluation Mathematical review and integrating previous works or coding done by supervisor for an implementation of the non-destructive testing on foamed concrete. Linear regression is used to obtain the desired coefficients for the mathematical models that had been used to draw relationships between the dimensions of density, dielectric constant, and compressive strength. Further research topics have been suggested for improvement and exploration of different mathematical models.
March 2021 - Ongoing	Personal Website Portfolio Online Resume or CV; Refer to the GitHub Repo for more information. Stage 0: Static Basic Website Build: HTML, CSS, JavaScript. Stage 1: Front-end Framework: Angular. Stage 2: Dynamic Website Build: PHP, MySQL. Stage 3: Back-end Framework: Laravel.

ADDITIONAL SKILLS

PLC Programming/Structured Text/Sequential Function Chart/Ladder Diagram/Functional Block Diagram, ABB 800xA Distributed Control System, Siemens SIMATIC TIA Portal, AVEVA Intouch HMI, Schneider Electric EcoStruxure, Communication Protocol/Modbus/TCPIP, SCADA Programming, District Cooling System Control Design

OTHER INFORMATION

Address: Cova Suites, C-13-06, Jalan Teknologi, Kota Damansara PJU 5, 47810 Petaling Jaya, Selangor, Malaysia.
GitHub: https://github.com/cchsing
LinkedIn: https://www.linkedin.com/in/chchong5679/