

## ENGINEERING SKILLS & SUMMARY

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Building, testing, scripting, operations, maintaining and monitoring SCADA. Proficient in several programming languages and technologies, KornShell, Perl, SQL, HTML, CSS, PHP, C++ and PLC. Experience with workstation, server and network installation, electronics repairs and Unix administration. Objective, driven and disciplined team player, passionate about IT & Network infrastructure and excited to acquire industry experience in data center operations, app development, cloud computing and telecommunications while being a supportive force that drives business growth in the organization.

## WORK EXPERIENCE

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- [Power Automation](#) Jul 2022 – Present  
Singapore
- **Assistant Electrical Engineer, System Administration**
    - Collaborated in the installation of networking devices, 45+ workstations, Oracle x86 and Sparc Servers in 4 days
    - Configured, administered and maintained Unix and SCADA system, [Siemens Spectrum Power 4](#), workstations, servers, SAN storage and IT & network infrastructure
    - Communicated with [Singapore Power Limited](#) and developed Oracle SQL query scripts to provide requested data
    - Optimized system and improved system's speed by automating cleanup and routine tasks using cron and scripts
    - Formatted and manipulated texts using AWK, Perl, RegEx and sed to provide business users with formatted data
    - Developed an animated progress bar and a bar graph to improve existing scripts' user interface and experience
    - Improved existing scripts to be clean, scalable and feature-rich to reduce development time and runtime by 50-90%
    - Regularly backed up file systems, Oracle and proprietary Spectrum databases and mirrored hard drives
    - Soldered, desoldered and repaired broken capacitors, IC chips, resistors and transistors in RTU battery chargers
    - Provided L1/L2 app support, diagnosis and troubleshooting, supported the team in documentation and server, cable, fiber, network devices installation, maintenance and recovery of the system during and after business hours
- Yoma Power Jul 2021 – Jun 2022  
Nay Pyi Taw, Myanmar
- **Assistant Electrical Engineer, Survey**
    - Collaborated with [Union Resources & Engineering](#), in planning the construction of 2 transmission towers and substation
    - Collaborated in the calculation of 2 transmission towers and substation land survey costs and preparation of a tentative schedule of reconnaissance and geological survey works
    - Collaborated in the presentation of future electrical infrastructure projects to the [Ministry of Electric Power](#)
    - Traveled to remote areas to survey land for the construction of 2 transmission towers and substation
- [Khoo Teck Puat Hospital](#) Sep 2018 – Feb 2019  
Singapore
- **Electrical & Electronics Engineering Intern, Facilities Management**
    - Worked night shifts to carry out facility maintenance
    - Collaborated in operating and maintaining a wheelchair tracking system using RFID and Zigbee technologies
    - Improved the system's user interface by showing more relevant details
    - Tested and documented the technical limitations of Zigbee routers and collaborated in the installation of routers
    - Led and completed a Christmas light project (FYP) using kinetic energy to power up lights 9 days ahead of deadline
    - Led and programmed Arduino to light up LEDs using digital voltage data from a spinning wheel ADC
- Freelance Jul 2018 – Sep 2018  
Singapore
- **Freelance Frontend Web Developer, Web Development**
    - Developed 2 responsive websites while in school: <https://kk-aye.com/> and <https://keen.com.sg/WinstonAcademy/>
- [Teppei Syokudo](#) Jan 2016 – Jan 2018  
Singapore
- **Service Crew, Cooking & Sales**
    - Cooked, engaged customers, increased loyalty and sales through upselling, cross-selling and highlighting value

## EDUCATION

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- **Bachelor of Science Information Systems, Singapore Management University** Aug 2019 – Feb 2021
  - Python Programming, Data Management, Web Development, IT Sys & Innovation
- **Diploma in Electrical & Electronic Engineering, Singapore Polytechnic** Apr 2016 – Feb 2019
  - C++ & Embedded System Programming, Microcontroller, Networks & Protocols

## AWARDS

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- **2018 & 2017 Singapore Polytechnic Chess Open, 1<sup>st</sup>**
- **2015 & 2013 Singapore Youth Festival Modern Dance, Certificate of Distinction and Accomplishment**