Paing Phyo Tha

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SKILLS & SUMMARY

Assistant Engineer with experience in system maintenance, infrastructure support, and process optimization. Experienced in administering servers, SCADA (Supervisory Control and Data Acquisition) applications, and conducting large-scale RTU (Remote Terminal Unit) testing for critical power systems. Proficient in scripting, data analysis, and troubleshooting to maintain efficient and reliable operations. Collaborative team player with experience coordinating across teams to ensure smooth workflow in fast-paced environments.

WORK EXPERIENCE

Power Automation   Jul 2022 – Present

- **Assistant Engineer**   Singapore
  - Configured, monitored, and optimized servers, storage, databases, and the SCADA application, Spectrum Power
  - Set up Dell Linux servers, Digi devices, and RuggedCom units in-house for Spectrum Power upgrades and conducted FAT (Factory Acceptance Test) to validate system performance and data integrity
  - Carried out hardware upgrades, repairs, and replacements on-site for servers, storage devices, and networking equipment to support grid operations
  - Recovered and backed up HMI setups, systems, and databases to quickly restore operations and ensure data integrity
  - Built custom Python tools to automate data extraction, cleaning, and analysis across Oracle and proprietary systems
  - Developed scripts to automate system monitoring and routine tasks using shell, batch, Python, and Perl, to help identify issues and streamline daily operations
  - Conducted large-scale RTU testing across 4,000+ devices throughout Singapore, validating over 160,000 data points
  - Programmed Allen-Bradley PLCs in Studio 5000 and modified HMI graphics in FactoryTalk for Singapore Power Group's gas control system
  - Documented ladder diagrams, tags, I/O points, and Modbus addresses for the gas control system
  - Provided technical support and operational insights to end-users across Singapore Power Group

Khoo Teck Puat Hospital   Sep 2018 – Feb 2019

- **Electrical & Electronics Engineering Intern**   Singapore
  - Tested a prototype wheelchair tracking system, gathered data, and documented its functions and performance
  - Enhanced wireless system performance by optimizing Zigbee network coverage, fine-tuning device placement, and upgrading backend code for faster, more reliable operation
  - Built a kinetic-to-light energy system using bicycle wheel motion, designing circuits and programming Arduino to control LEDs
  - Observed and tracked contractor repairs and upgrades across multiple hospital wards

Freelance   Jul 2018 – Sep 2018

- **Freelance Frontend Web Developer**   Singapore
  - Developed responsive website https://keen.com.sg/WinstonAcademy/

Teppei Syokudo   Jan 2016 – Jan 2018

- **Service Crew**   Singapore
  - Managed high-volume food preparation and service during peak hours
  - Actively engaged commuters at MRT stations with flyers, promos, and free samples and promoted loyalty programs to increase customer retention
  - Consistently exceeded daily sales targets; boosted weekday sales from $2.5K to $3K and weekend sales from $5K to $8K through upselling, cross-selling, and strong customer rapport
  - Primarily based at Millenia Walk, with occasional support at other branches

EDUCATION

- **Diploma in Electrical & Electronic Engineering, Singapore Polytechnic**   Apr 2016 – Feb 2019
  - C++ & Embedded System Programming, Microcontroller, Networks & Protocols