Moniz Chan

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PROFESSIONAL SUMMARY

- Dedicated registered nurse with a Master's in Biomedical Engineering and over 5 years of experience in healthcare data management and project leadership.
- Led diverse projects utilizing QI methodology, spanning from departmental change to hospital-wide development, such as pioneering electronic inventory systems and integrating 5G technology into hospital operations.
- Proven ability to work independently and collaboratively across multidisciplinary teams, delivering innovative solutions through evidence-based problem-solving approaches.
- Skilled in Microsoft Office suite, GitHub, Python, HTML, SQL, statistical analysis tools, statistical modelling, and 3D CAD design (SOLIDWORKS).
- Effective communicator adept at bridging technical and non-technical stakeholders.

TECHNICAL SKILLS

- **File management:** Unix Shell, Git / GitHub
- **Data management:** Microsoft Office suite (e.g. MS Word, MS Excel etc.), Google Workspace, SQL
- **Statistical analysis :** JMP, MATLAB, SPSS, statistical modelling
- **3D CAD design:** SOLIDWORKS
- **Language:** Python, HTML
- **QI methodology:** Lean Six Sigma, PDCA, Root Cause Analysis, Process Mapping

RELEVANT WORK EXPERIENCE

Senior Technician   Apr 2023 – Aug 2023

Abbott Point of Care • Ottawa

- Coordinated with multiple departments to ensure 100% compliance with validated manufacturing processes and all safety and biohazard regulations
- Introduced new testing devices through formulating validation plan, user requirement specification (URS), cyber security assessment and related documents
- Ensured product reliability through investigating sources of variability impacting product by data mining from SQL server, root cause analysis, issuing out-of-specification and non-conformance reports, and initiating Corrective and preventive action (CAPA)
- Conducted preventive maintenance through statistical analysis of solutions and products performance using JMP Statistical Software

Registered Nurse (Operation Theater)   Oct 2018 – Mar 2023

Hospital Authority • Hong Kong

- Pioneered Electronic Assets Audit System for enhancing data entry efficiency by 60% and reducing data entry error to less than 1%.
- Led a knowledge enhancement program to over 100 healthcare professionals, resulting in staff's knowledge test score increased by 43% and self-evaluation score raised by 18%
- Initiated Supply Storage Standardization, optimizing storage practice and expanding operating room storage capacity by 20% without additional costs
- Ensured sustained supply of surgical instruments and accessories through analyzing operational data for surgical stock management and anticipating operation needs
- Represented department for a 10-year project of implementing 5G technology in the hospital

ADDITIONAL WORK EXPERIENCE

Charge Nurse   Jan 2024- Present
Yee Hong Centre for Geriatric Care • Toronto
- Supervised registered practice nurses and patient support workers in the unit
- Coordinated resident care with nursing, interdisciplinary team members, and families

Registered Nurse   Sep 2023 – Present
Scarborough Health Network • Toronto
- Managed over 30 outpatient cases per shift for surgical examinations and treatment
- Initiated service task, order request, and accessed patient's records with Epic application

Registered Nurse (Operation Theater)   Jul 2017 - Oct 2018
Canossa Hospital (Caritas) • Hong Kong
- Composed electronic guidelines for operations of multiple surgical specialties
- Supported anesthetics induction and intubation procedure, and provided perioperative care

EDUCATION

Data Science and Machine Learning Certificate   Apr 2024 – Expected Aug 2024
Data Sciences Institute, University of Toronto (U of T)

Master of Biomedical Engineering   Sep 2019 - Aug 2021
The Chinese University of Hong Kong (CUHK) [GPA: 3.710]

Bachelor of Nursing - First Class Honor   Sep 2012 - Jul 2017
The Chinese University of Hong Kong (CUHK)

PROFESSIONAL CREDENTIALS

- Registered Nurse of College of Nurses of Ontario
- Post-registration Certificate in Perioperative Nursing (Pass with credit)
- Advanced Cardiovascular Life Support (ACLS) and Basic Life Support (BLS)

ACHEIVEMENTS

Electronic Inter-theater Audit System
United Christian Hospital
- Developed an electronic inventory platform using Lean Six Sigma, reducing manual filing time by 60% and minimizing data entry error to less than 1%.
- Automated inventory usage records and reporting, minimizing data collection time by up to 90%, and extending to include machine utility and staff duty management.

Implementation of 5G technology in hospital
United Christian Hospital
- Represented the department in 5G infrastructure conferences, negotiating with stakeholders and overseeing device integration in operating theaters.
- Monitored and evaluated outcomes to enhance hospital operations.

Invention of a Laparoscopic Suturing Device
The Chinese University of Hong Kong (CUHK)
- Awarded Project Excellence Award 2020-21 for developing a revolutionary laparoscopic suturing device.
- Created the prototype with SOLIDWORKS, with performance test showing the device accelerated suturing by approximate 20% and minimized required workspace by up to 45%.

Local Anesthesia Care Education Program
United Christian Hospital
- Designed the program using on the Plan Do Check Act (PDCA) cycle, supported by statistical analysis with Statistical Package for the Social Sciences (SPSS), demonstrating a 43% increase in participants' knowledge test scores and an 18% improvement in self-evaluation scores.
- Led lectures and simulation workshops for over 100 healthcare providers, and created tailored emergency kit and reference card, endorsed by the Department of Anesthesiology, Pain Medicine and Operating Services.

Revamp of Enterprise resource planning (ERP) systems
Peako Engineering Company Ltd
- Structured fixed assets coding and implemented an electronic record system to streamline management and auditing.
- Established an online staff payroll system, enhancing administrative efficiency for managers and providing updated viewing capabilities for staff.

Supply Storage Standardization
United Christian Hospital
- Implemented Lean Six Sigma principles to minimize workplace hazards and enhance efficiency based on 5S workplace organization methodology.
- Formulated standardized inventory management protocols, improving operational consistency and maintaining a 100% compliance rate through regular audits every 6 months.

AWARDS AND HONOURS

Biomedical Engineering Scholarship 2020-21	2022
Project Excellence Award 2020-21	2021
Dean's List 2020/2021	2021
Dean's List 2016/2017	2017
Dean's List 2014/2015	2015
Global Academic Exposure Award	2015
Short-term exchange program award for summer cultural exchange program	2015

LANGUAGES

English, Chinese (Cantonese and Mandarin)