KP Sut Ring Ja

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Experience

Engineer **(January 2021 – August 2023)**
Micron Technology

- Schedule, plan, forecast, resource and manage all the technical activities assuring project accuracy and quality
- Analytical software to monitor product traces, mitigating defects, and enhancing product quality
- Design and implement advanced process monitoring and control methodologies
- stakeholder of department's warehouse databases and inventory
- Analyze process data and conduct experiments to optimize process conditions
- Coordinate manufacturing priorities, productivity, using LEAN technique
- Continuous Improvement Projects (CIP) for cost reduction and automation
- Collaborate with Production, Equipment, Shift Engineering, Process Integration and other Process Areas in day-to-day tasks
- Develop automated production dashboard with Hadoop, Python, Hadoop, SQL, VBA for daily reports
- Lead quality focused meetings to help area reduce scraps and excursions, improve quality and maximize yield

Technical Specialist **(January 2020 - December 2020)**

- Develop procedures and checklists for maintenance, equipment or process qualification and reaction mechanism
- addressing advanced troubleshooting for high speed MFG tools (Robotic Arms, Sensor, precision) systems
- recommendation on system designs and development using simulation tools AutoCAD, SolidWorks, Matlab

Technologist 2 **(January 2017 – December 2019)**

- Troubleshoot manufacturing line equipment tools
- Update daily works with engineering team and production team

Technologist 1 **(May 2016 – December 2016)**

- Reporting to area engineers and performed PM/CM/6s

Service Engineer (internship) **(August 2015 – February 2016)**
MedTech engineering

- Warehouse management, shipping, and troubleshooting
- Product demonstration and sales of hospital equipment

TECHNICAL SKILLS

Programming:	C, Python, R, SQL, Spark
Big Data:	Hadoop, MongoDB, MariaDB, Snowflake, MySQL
Data Visualization:	PowerBi, Tableau, Alteryx, (Seaborn, Matplotlib, Plotly, Pygal, etc),
Manufacturing Skills:	PowerPoint, SPC (Statistical Process Control), GERM, Gantt charts, Process Capability, Product Quality, Process Capability, Root Cause Analysis, Flow Charts, Technical Reviews, Presentation, Budgeting, Cost Control and Analysis, Engineering Change Control, Problem Solving,
Cloud Technologies:	AZURE, Docker, Kubernetes, SSIS (ETL & Data Integration), Ubuntu, AWS
Machine Learning:	**Supervised Learning**: Linear Regression, Logistic Regression, Decision Trees, Random Forests **Unsupervised Learning**: K-means Clustering, Principal Component Analysis (PCA) **Deep Learning**: Neural Networks (using libraries such as TensorFlow or PyTorch) **Other Techniques**: Support Vector Machines (SVM), Gradient Boosting (XGBoost, LightGBM), AB Testing, CI/CD

EDUCATION

University of Ontario Technology, Oshawa **(Sept 2024 – Aug 2025(expected))**
Master of Business in Analytics and AI
George Brown College, Toronto **(Sept 2023 – Aug 2024)**
Postgraduate Diploma in Applied A.I Solution Development
National University of Singapore – Singapore, Singapore **(Aug 2017 – Dec 2021)**
Bachelor of Technology in Electronic Engineering – Singapore
Republic Polytechnic – Singapore **(Apr 2013 – Apr 2016)**
Diploma in Electrical and Electronic Engineering

Projects

Battery Management for Electric Vehicles (Dissertation, NUS) Developed a system using 12-cell lithium batteries with active/passive balancing. Applied sensors, MATLAB, and machine learning for efficient SoC estimation and battery life analysis.
Finance Analysis Pipeline (George Brown, 2023) Developed a streaming pipeline for comprehensive stock market analysis, integrating data from diverse sources into a cloud-based platform. Utilized Snowflake, PostgreSQL, MariaDB, Hadoop, SQL Server, and MongoDB for data storage and processing, with Azure SQL serving as the central repository. The project is the creation of dynamic Power BI dashboards, providing insightful visualizations and analytics to inform investment decisions and market strategies.
Acoustic IOT project (Micron, 2021) Developed an innovative in-house IoT system at Micron, designed to monitor and analyze unusual activity in manufacturing equipment. This implementation has improved up time by 90% and prevention of potential part failures by 40%, and significantly optimizing manufacturing efficiency.
Distance estimation (George Brown, 2024) This is the work integrated project. This is supervised classification model to train deep learning model applying multiple different algorithms then benchmark to deploy in the nuclear power plant. The models that used in this program are LSTM, Transformer, CNN to obtain the best model.