Kanangnut Siriphool

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Relevant Links: www.linkedin.com/in/kanangnut-siriphool | https://kanangnut.github.io | https://github.com/Kanangnut

Profile

As an adept Quality Engineer with a proven track record in data quality analysis, I am currently seeking a new opportunity that enables me to delve into the dynamic domains of data engineering and machine learning. Driven by a fervor for continuous growth and innovation, I have diligently cultivated proficiency in Python, R, SQL, machine learning, and other related areas of expertise. Through hands-on projects featured in my portfolio and GitHub repository, I have effectively showcased my ability to apply these skills. With a robust foundation in quality engineering and a commitment to deriving insights from data, I am enthusiastic about contributing my expertise to a fresh role.

Education

Silpakorn University   Bangkok, Thailand
Bachelor of Bioprocess Engineering (B.Eng.)   May. 2009 – Dec. 2014

Projects | C, MATLAB, MATLAB Application Program Interface (API)
A Computer Program for Determining Parameters of Cell Growth Kinetic Equation

Technical Skills

Languages: Python, HTML/CSS, JavaScript, C/C++, SQL
Frameworks and Libraries: React, FastAPI, pandas, NumPy, Matplotlib, TensorFlow, Scikit- learn, Keras, Seaborn, PyTorch
Developer Tools: Git, VS code, IntelliJ, Microsoft Azure Machine Learning Studio, SaaS, Postman, Power BI, Tableau

Experience

FREELANCE TRADER | Jun 2017 - Present
Key responsibility:
- Trading in the stock market, bitcoin, and mutual funds.
- Evaluating potential investment risks and conducting research for both long-term and short-term profit.
- Analyzing the present market scenario and conditions using technical and financial analysis.
- Researching and evaluating companies through technical and fundamental analysis to determine optimal entry and exit levels for stock and option trading.
- Investigating the financial position of companies.
- Researching the market to make well-informed investment decisions.

Key technical:
- Exponential Moving Average (EMA), Moving Average (MA), Long short-term memory (LSTM) and other.

QUALITY CONTROL — STMicroelectronics Pet, Ltd., Singapore | Jun 2022 - Present
Working in EWS Department at ST is a global high-tech company creating semiconductor technologies for a smarter, greener, and more sustainable future.

Key responsibility:
- Responsible for quality control (QC) testing of products during mass production and new prototype development, making timely decisions for release or holding/rejecting defective products at the primary level.
- Utilize the Advanced Networking Terminal Application to edit wafer maps for wafers classified as having server defects, assisting in the identification of root causes, and communicating findings to the relevant department.
- Perform QC analysis of finished products according to established protocols and engage in routine laboratory maintenance tasks as necessary.
- Maintain accurate records, prepare reports, and compose correspondence related to the work.
- Maintain and document EWS laboratory equipment, promptly reporting any abnormal issues for resolution.

QA&QC ENGINEER — INEOS Styrolution Co., Ltd, Thailand | Nov 2018 - May 2022
Working in QA&QC Department, goal to improvement and develop new product of ABS, ASA, SAN, SSAN and Rubber to support Asia, EU and China Market.

Key responsibility:
• Characterize raw data property statistical analysis. Leverage this insight into product quality, process improvement and product specification for increased yield, reduced cycle time, cost saving and reduced product off-spec.
• Characterize critical point of raw material performance through experiment and analysis for leverage this insight in product development.
• Review new raw material, bill of material, polymer formulation and product property for adjustments product specification for support raw material price increasing crisis.
• Lead handling on new product design, product specification, customer claim complaint to create report for customer.
• Technical data consultant for support technical and product detail to Sale, Customer service, Business team and Marketing team.
• Update and maintain Laboratory equipment programing to align with Korea and Global R&D. Partner with Quality manager to identify training needs and presenting the report to Product manager before train and demonstration experience working to Laboratory team.
• Working closely with internal manufacturing engineer, project engineer, equipment engineers and outside partners to successfully complete proof of concept.
• Create, maintain, administer, consultant Thailand document database 'Lotus Note' (IBM database documentation). Training and demonstration to new employee and all colleague in Thailand. Organized with administrator of all departments in manufacturing team to identify training needs.

Key projects:
• Project improvement streak issue to extend shutdown period of SAN reactor.
• Create the program for calculate AN content result in Macro FTIR. (OMNIC FTIR Software)
• Set standardize the Alpha-Methyl Styrene Acrylonitrile contaminate issue to eradicate off-grade product.
• Champions of Digital Workplace Thailand: project for migration internal document form Lotus Note IBM database to global intranet.
• Project regulatory challenges in Novodur grade for EU food contact amendment and customer declaration residual styrene in product - MSDS. GHS label
• Project improvement rubber property by adjust reactor temperature and recipe of product for improvement rubber size of agglomeration process in reactor.

QUALITY ENGINEER — Tetra Pak Ltd., Thailand | Jun 2017 - Oct 2018
Working in the quality department, for improvement product quality and driving process manufacturing to success zero waste emission.

Key responsibility:
• Create and maintain quality matrix to performing inspections, tests and sampling of incoming materials, in-process production and finished products.
• Create and maintain work instruction, one point lesson and document concern to appropriate with working process. Conduct an audit and review manufacturing procedures to ensure compliance with quality standards.
• Driving Lean activities through WCM and KPI achievement of EE (Equipment Effectiveness), Defect Waste, Process Waste and Claim. Report and present to WCM department every month.
• Lead and handling for investigate customer claim for domestic and oversea market. Performing analysis and completing 8D reports, in accordance with time requested. Follow up and verify corrective actions/preventive actions and ensures completion.
• Assist and developing the document for support internal and external audits.
• Issue non-conformity report in case found abnormality with material/raw material. Participates in investigations, reviews, and approves supplier investigation reports.

Key projects:
• Successful project to reduce contaminated waste by improvement and change material on U machine to reduce contaminate waste up to 80%.
• Successful project to eradicate quality problem at customer sites. (Project period 1.5 month at Bien Hoa 2 Industrial Zone and Thang Long II Industrial Park, Vietnam)

TECHNICAL CLAIM ENGINEER — YOKOHAMA Tires Co., Ltd., Thailand | Feb 2016 - Jun 2017
Working in Quality department, first technical claim engineer respond person in Thailand.

Key responsibility:
 ◦ Team leader of customer claim complaint with concern section. Traceability production, technical and design for analyze the problem. Review and improvement Standard Operation Procedure (SOP), FMEA and Control plan for appropriate with actual working. Follow up and verify countermeasure from manufacturing team.
 ◦ Investigate non-conformity product by analysis Tire structure, Tire specification and design experimental to simulation test to find root cause of problem.
 ◦ Create a report of Technical Quality Claim Sheet (TQIS) report to Yokohama Rubber Company (YRC, Japan Headquarter).
 ◦ Create Technical Claim workflow to completed case in Thailand manufacturing.
 ◦ Support system activity KPI, ISO 9001:2008, ISO 14001, ISO/TS 16949:2009 and OHSAS 18001:2011.

Key projects:
 ◦ Successfully reduced the bumpy side (bulge) scrap by improvement tire structure to prevent re-occurrence issue. The resulting of scrap percentage reduced from 3.98 to 1.50. (37.69%)

NEW MODEL ENGINEER — KPN Sakaguchi Co., Ltd., Thailand | May 2015 - Jan 2016
Working in New model department, Metal Stamping and Assembly Seatbelt and Airbag.

Key responsibility:
 ◦ Prepare product new model report and presents to customer for kick-off project new model.
 ◦ Collaborate with customer to provide the right explanation/feedback as per their specification requires during & after activity.
 ◦ Establish trial criteria for testing product performance. Monitoring the result during trial. Summary full dimension report for adjusting drawing and JIG design to appropriate with product specification.
 ◦ Conclusion new model Product Part Approval Process (PPAP) and hand over to customer.
 ◦ Organized and maintain customer and supplier audits for product new model.
 ◦ Create material data in IMDS (International Material Data). system.

Certifications

 ◦ Certification of Labor Law and HR Techniques for People Management (2021)
 ◦ Certification of Influencer Course by PacRim (2020)
 ◦ Certification of Techniques Analysis Problem (2018)
 ◦ Certification of International Online Academy on "International Economic Law" (2019)
 ◦ Certification of Failure Mode and Effect Analysis and Process capability analysis (2020)
 ◦ Certification of BRC Global Standards Packaging and Packaging Materials Issue 5 Internal Audit (2018)
 ◦ Certification of Internal auditor for ISO9001, ISO14001, ISO50001 and OHSAS 18001 (2022)
 ◦ Certification of Data Analytics: Part 1 Foundations (2023)
 ◦ Certification of Data Analytics: Part 2 Extending and Applying Core Knowledge (2023)
 ◦ Certification of Advanced NLP with Python for Machine Learning (2023)
 ◦ Certification of AI Accountability: Build Responsible and Transparent Systems (2023)
 ◦ Certification of Learning Amazon SageMaker (2023)
 ◦ Certification of Amazon Web Services Machine Learning Essential Training (2023)
 ◦ Certification of Power BI: Integrating AI and Machine Learning (2023)
 ◦ Certification of AI Algorithms for Gaming (2023)
 ◦ Certification of Machine Learning with Scikit-Learn (2023)
 ◦ Certification of Python Libraries for Data Science (2023)