XYZ

Summary

- 3 years of working experience in Telecommunication Industry as a Presales Engineer, Project Engineer, RF Engineer and Data Analyst whereby I gained knowledge in 4G & 5G mobile networks
- Competent in utilizing tools such as Excel for data manipulation, Python, PostgreSQL & MySQL for database querying.
- Proficient in developing predictive models, particularly in Credit risk and Fraud domains
- Solid understanding of machine learning techniques including Gradient Boosting and KNN
- Experienced in utilizing diverse modeling frameworks such as Linear Regression, Logistic Regression, Multiple Regression, Lasso regression, OpenCV, Natural Language Processing (NLP), Natural Language Toolkit (NLTK) and image classification techniques.
- Possess extensive experience with deep learning frameworks like Scikit-Learn,TensorFlow, PyTorch, and Keras and Machine learning algorithms such as k-NN, Naïve Bayes, SVM and Decision Trees.
- Demonstrates strong analytical skills, a solid foundation in statistical modeling, and a passion for solving complex problems with innovative machine learning solutions.
- Proficient in mainstream deep learning frameworks such as TensorFlow and well-versed in deep learning algorithms including CNN, RNN, LSTM, BERT, and seq2seq models.

Skills

- C Programming
- C++ Programming
- Python Programming
- SQL Programming
- Internet of Things
- Power BI
- Data Visualization
- Machine Learning
- Tableau
- Big Data
- Automation
- Artificial Intelligence
- MATLAB
- R Programming
- C# Programming

Work Experience

5G RF Solutions Engineer

June 2022 – Present

- Product Line Transfer & Sustaining: Collaborated with Process Mechanical Engineers, Technicians, and Assemblers for product line transfer and sustaining current production lines.
- Product & Process Qualification: Led product and process qualification, risk assessments, and implemented manufacturing processes from prototype to mass production, complying with Agilent's Product Life Cycle process & Quality Management System.
  New Product Development: Involved in new product development, responsible for DFM, DFT, and DFS to meet quality and manufacturing deliverables, ensuring conformance with the global supply chain and mass production, including assembly fixture/tooling integration in the manufacturing shop floor system.
- Continuous Engineering Improvement: Led cross-functional teams in continuous engineering improvement initiatives for product yield, DeFOA, and warranty failure rates, meeting goals for product quality, costs, and production efficiency.
- Failure Analysis & Improvement: Conducted structured failure analysis on customer failures and implemented necessary improvements to enhance product quality and reliability.
- Product/Component Redesign: Redesigned products or components to meet cost objectives, address component obsolescence, and fulfill customer requirements.
- Engineering Evaluations: Planned, evaluated, recommended, and conducted engineering evaluations or special builds supporting business growth objectives and supply chain optimization.

Test Methodology Development: Led the development of test methodology/flow, test station, and test software, achieving test platform standardization and optimization.

- Vendor/Partner Management: Directed third-party vendors and/or partners to meet contract-specified deliverables, performance, or business objectives.
- ERP Data Management: Identified and managed ERP data, such as bill of materials and routing requirements for manufacturing processes.
- Advanced Testing Tools: Utilized advanced testing instruments and software like PNA-X Vector Network Analyzer, VXG Vector Signal Generator, and Keysight's internal software test platform IxLoad for comprehensive validation and performance testing.
- Enhanced product performance by improving First Pass and Throughput Yield. Conducted data analysis, identified root causes of failures, and drove continuous improvement initiatives to achieve higher yield.
- Guided technicians in troubleshooting, repairing, assembling, and testing RF Circuit Card Assemblies (CCAs) and modules at both the system and component levels, utilizing various software and hardware tools.
- Led continuous improvement (CI) efforts in collaboration with technicians, engineering teams, and R&D departments.
- Coached and assisted technicians in verifying test failures and enhancing troubleshooting skills.

Achievement

- Wrote a 30-page document with 0% error and successfully used it for references as the RF engineering journal.
- Completed review and testing of PCB layouts and sign-off on designs of PXI Vector Network Analyzers and PXI Chassis and Controllers
- Architected and Implemented a robust IoT solution for a manufacturing client, resulting in a 20% increase in operational efficiency through predictive maintenance and real-time monitoring.

RF Engineer

June 2020 – May 2022

- Oversaw the progress of Klang Valley (KV) Antenna Feeder Swap (AFS), ensuring timely execution and adherence to project milestones.
- Tracked daily Key Performance Indicators (KPIs), including Downlink Average User Throughput Traffic Volume and Massive MIMO sites, to maintain network performance and efficiency.
- Delivered call drop and packet loss of IMS network elements, conducting continuous improvements to enhance Voice over LTE (VoLTE) user experience.
- Analyzed root causes on LTE cells for ERAB failures, call drops, and signaling failures, implementing corrective measures to enhance network stability and reliability.
- Optimized & reviewed VoLTE Key Performance Indicators (KPIs), including Downlink and Uplink Mean Opinion Scores (MOS), call drop rate, and network connection rate, to maintain high-quality voice services.
- Led a delivery team responsible for optimizing the worst-performing cells to meet client requirements and improve overall network performance.
- Conducted a comprehensive case study analysis on GSM Power Saving Features, specifically Enhanced BCCH Power Consumption Optimization and efficiency improvement.
- Implemented Maxis – DNB Interfrequency Neighbor relationship Script to facilitate smooth transitions between 5G and 4G networks, ensuring seamless connectivity for users across different network technologies.
- Acquired knowledge in tools such as LampSite products and pRRU
- Utilized Huawei SmartCare solution to query and tabulate VoLTE KQI & KPI data and strong exposure to service tools and applications (e.g Probe based CEM/ geo location platform)

Achievements:

- Completed VoLTE KQI reports and slides for KV, JB and Penang every week for more than 1 million subscribers.

Project Engineer, Network Services May 2019 – May 2020

- Implemented Maxis Lease Line to expand the U Mobile's fixed network backhaul, ensuring seamless expansion and improved connectivity.
- Managed the smooth transition of Fixed Network Elements from NGBB to IPMAN for Enterprise clients, ensuring uninterrupted service delivery and customer satisfaction.
- Installed Voice SIP trunk solutions for Business Enterprise about 50 Customers onsite, enabling advanced communication capabilities and enhancing operational efficiency.
- Prepared budget quotations and detailed designs for Fixed Network Enterprise services, optimizing resource allocation and meeting client requirements effectively.
- Conducted onsite analysis and performed minor fiber splicing using Huawei NCE in response to network alarms, ensuring swift resolution of issues and maintaining network integrity.
- Utilized knowledge of CAN Bus (Controller Area Network) for communication in automotive and industrial settings.
- Supported the sales team with in-depth technical knowledge and pre-sales activities, contributing to successful customer engagements.

Achievements:

- Successfully completed 90% lease line rollout to expand U Mobile’s backhaul network
- Managed smooth swap of fixed network elements from NGBB to IPMAN for 2000 enterprise customers

EDUCATION

MSc Internet Technologies with Business Management **2017 - 2018**

Dissertation: Driving Digital Transformation in Smart Cities with Internet of Things

BEng (Hons) Electrical & Electronic Engineering **2014 - 2017**

Final year project: Evaluating the performance of an Adaptive Equalizer under the influence of