**Gabriel Uko Igwe**

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QUALIFICATIONS & BACKGROUND

I am a result driven innovative Six Sigma & Certified Scrum Product Owner Leader/Product Manager, with >12 years of diverse experience in Oil & Gas and Chemicals. Proficient in strategic development & implementation of IT energy & engineering Domain Driven Development solutions using Agile methodology, consulting experience, data analysis. Talented Team Builder in collaborating for results with peers and 3rd party vendors and leading IT development teams to build & deliver user friendly IT web-based solutions. Broad knowledge and background in various plant process equipment, industry standards.

SKILLS

* Microsoft Azure DevOps, Microsoft TFS, JIRA, Agular & Hadoop platforms, Data lake Cloud, Software as a service, Java development
* Microsoft Office, Adobe Suite
* Agile methodology, Sprint planning, Release Planning management, Software development life cycle (SDLC)
* Scripting Epics, User stories & Acceptance Criteria’s, UI/UX design, Acceptance testing, Product Backlog Management
* Training development and delivery, Change Management
* Product owner, Development & Deployment
* Acted as SME to review & approve product Architecture, & validate API calls results for accuracy
* Management, Customer facing, Product Marketing & Business Intelligence, Roi, Tableau, Data analysis, Business Objects, Seeq, Pareto Analysis, VSM, Engineering Consulting
* Continuous improvement, Lean methodology
* cGMP, SOP’s, OSHA
* PV-Elite, Caesar II, API & ASME codes
* Reliability modeling, Equipment Strategy, dFMEA, FMEA, RCA, RCM Turbo tool,
* 5Y’s, Spare Parts Optimization tool, CMMS, Weibull
* JMP, HTRI, Sinet, Mat lab, Maple, SAP, Ansys Workbench, Aspen, Autodesk Inventor, AutoCAD

CERTIFICATION:

* Certified Six sigma Green Belt Project leader (DMAIC)
* Exxon Project Manager Certification
* Certified Scrum Product Owner (CSPO)
* AWS Solution Architect Certification - Pending

PROFESSIONAL EXPERIENCE

**ExxonMobil, EMRE Energy - Equipment Technical Division Headquarters**, Spring, TX

IT Product Owner / Manager, Engineering Domain SME, Development and Deployment Lead, July 2019 – Present

Key achievements

Heat Exchanger Fleet Project

* Led a $60M Global IoT & IT cloud web-based solutions Heat Exchanger fleet metric performance project to, identify, predict data-driven performance gaps using machine learning, and grow earnings worth $30M/yr in Energy & Margin benefits
  + Worked closely with key stakeholders across 40 sites, to develop product strategy, vision, and requirements in taking a SAAS product to lunch
  + Led the internal and external stakeholders & partners engagements to buy-into the product vision, and also facilitated monthly stakeholder update meetings on Product Roadmap, Feature completion & Go-live targets
  + Participated in project white boarding, identified the key features, critical IoT data from sensors, and worked with back-end Hadoop developer to store to a cloud-based location (Data lake) for use in software development
  + Utilized SME skills to translate and direct the development team who had no engineering knowledge to understand complex engineering algorithms, product vision, develop & deliver features meeting the stakeholder business needs
  + Reviewed Feature changes with the Development team to under impacts to existing code and implement regression testing to validate existing code linkages for continuity
  + Set clear expectations & milestones for engineering team which helped team deliver, reduce recycle and overcome barriers
  + Managed the product roadmap, drove project team to reach a consensus plan to meet tight deadlines and Go-live target date
  + Managed the Product Backlog Item (PBI) list, crafted User stories, descriptions, UI mock-up’s and acceptance criteria during Feature development with a vision for improved user experience
  + Worked with the marketing team to develop the product marketing plan, and implemented the plan via Release management
  + Drove the acceptance criteria validation in the acceptance environment and post push production defect feedback & resolution, via Azure Dev Ops & Agile continuous integration and continuous delivery process (CICD)
  + Led the tool API call results QA validation in the Angular web base front end, and also accuracy of calculated results
  + Partnered with the senior software developer to understand, optimize and streamline the existing systems architecture based off the domain knowledge and user expectations, to deliver a product that is valuable, scalable and maintainable
  + Developed, integrated & documented new work processes in product wiki to sustain the tool, trained marketing team and users enabling effective utilization
  + Deployed 5% of scope and achieved ~$5M in annualized savings. On-time & on-budget delivery, recognized by stakeholders, led to its global adoption

Steam Cracker Fleet Project

* Developed and implemented a Global IT Tableau−Excel based IoT tool to monitor and highlight energy efficiency improvement opportunities for ExxonMobil Chemicals Steam Cracker fleet.
* Timely delivery of tool & standard, recognized by stakeholders, led to global adoption

**ExxonMobil, Beaumont Refinery**, Beaumont, TX

Product Owner/Product Manager (Refinery & Heat Exchanger (HX)) September 2014 - July 2019

Key achievements

* Developed and presented a business case to reduce HX cleaning production losses, by analyzing plant performance IoT data and implementing a project to expand the HX cleaning real estate worth $4.7M/yr in savings. Project was fully funded
* Provided dotted line technical leadership to cross-functional teams, to identify, develop & execute an optimized HX cleaning gap closure plan based off plant IoT data results, with minimal impact to process throughput
* Applied plant IoT data analysis & lean methodology to improve Process & Mechanical work permitting, planning & execution practices, & implemented new equipment, which led to 66% HX cleaning program cycle time reduction in 4 yrs
* Analyzed Plant IoT data, designed and implemented a HX bundle transportation process to reduce unit production loss, operating expenses, personal & process safety exposure related to HX cleaning, resulting in $1M/yr savings
* Facilitated a refinery wide infantile failure analysis forensics investigation on cooling water (CW) HX’s by utilizing plant IoT data, which helped justify a $2M clarifier project to improve CW HX reliability, saving $1.5M/yr in operating expenses
* Provided cross-functional annual operator training to identify LTA HX performance via plant IoT data, & minimize business interruptions

ExxonMobil, Beaumont Refinery, Beaumont, TX

Project Manager for Fixed Equipment (Coker and Crude Oil Units), April 2013 - September 2014

Key achievements

* Analyzed plant IoT data, and Implemented a manual Air operated valve project to steam out the Coker unit flare, which saved $300K in Capital expense and mitigated the existing process safety gap from not being able to clean the flare tips
* Identified a compliance gap using plant IoT data, designed & implemented Air actuated ball valve project to stop recycle fuel gas valve leakage to the flare under normal operation, which helped reduce the refinery’s emission
* Provided technical guidance for the Coker-Crude $100M Hi-Tan corrosion mitigation project to enable the refinery run advantage crudes

THE DOW CHEMICAL COMPANY, Freeport, TX

### Lead Facility Reliability & Maintenance Engineer for Dow Agricultural-Science Unit, January 2010 - April 2013

Key achievements

Improved the Asset Mechanical Reliability and Uptime of key process equipment using plant IoT data, worth $3.9M in savings

* Developed and implemented the Facility Maintenance, Turnaround, & Equipment Maintenance strategies to meet Stakeholders Operational Reliability expectations and production targets
* Successfully provided timely support during the planned and unplanned unit shutdowns to minimize business disruptions
* Mentored a new hire to attain his Six sigma and maintenance level 1 certification
* Provided dotted line technical leadership guidance to the Maintenance execution team and vendors to implement fit for purpose equipment repairs to improve the MTTR, maintain low repair backlogs & minimize business disruptions

Picloram Facility $45M life expansion capital project

* Reviewed, developed new Equipment strategies, and provided guidance, calculations, ASME & API specifications & constructability reviews, to meet the stakeholder safety, maintainability, reliability and profitability expectations

THE DOW CHEMICAL COMPANY, Freeport, TX

Maintenance Engineer, Site Maintenance Department, January 2009 - January 2010

* Utilized plant IoT data and Improved the reliability (MTBF) of a pump system at the Epi-chlorohydrin unit from 1 to >6 months, saving ~$30K in operating expense, and attaining my Six-sigma, FMEA & Maintenance level 1 certifications

EDUCATION:

**The Ohio State University,** Columbus, OH - Bachelor of Science in Mechanical Engineering (BSME), December 2008