Oluwatobi Dedeke

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PROFESSIONAL SUMMARY

Systems Engineer with hands-on FAA experience in aviation safety, communications, and system security. Skilled in requirements analysis, documentation, and compliance for programs such as Runway Incursion Device (RID), ADS-B, and Gulf of Mexico weather systems**.** Strong record of improving operational processes, ensuring data accuracy, and collaborating with FAA leadership to advance critical modernization projects.

EDUCATIONAL SUMMARY

Morgan State University **Baltimore, Maryland.**
Bachelor of Science in Electrical Engineering, Computer Engineering concentration, graduation date: May 2020

TECHNICAL SKILLS

- Python programming language
- FAA and Aviation's Systems
- Amazon Web Services (AWS)
- Terraform
- Microsoft office suite proficiency

PROFESSIONAL EXPERIENCE

Accenture Federal Services **Arlington, VA.**
***Technical Architecture Senior Analyst* / (Full Time Employee)** (CL-10) June 2024 – Present

- Supported the Department of Education's FAFSA.gov by ensuring high availability and resolving AWS cloud networking issues.
- Assisted in migrating the Customer Care Backbone call center from on-premises to AWS Cloud, meeting Executive Order 14028 cybersecurity requirements.
- Applied Python, Terraform, and Amazon Connect to support automation and secure infrastructure deployment.
- Participated in on-call rotations to troubleshoot outages and maintain uptime for federal users.

Federal Aviation Administration, Surveillance and Broadcast Services Systems (AJM-422) **Washington, D.C.**
***Systems Engineer* / (Full Time Employee)** February 2024 – June 2024

- Supported the Offshore Infrastructure Management (OIM) team by installing and maintaining Automated Weather Observation Systems (AWOS) to enhance aviation safety and weather forecasting capabilities in the Gulf of Mexico.
- Monitored AWOS performance and provided real-time availability metrics on sensors and subsystems, ensuring reliable operation for aviation and maritime stakeholders.
- Developed and delivered failure rate analysis reports for AWOS weather boxes, enabling proactive maintenance and improving system reliability.
- Collaborated with FAA engineers and contractors to ensure AWOS installations met federal aviation standards and operational requirements.
- Provision of accurate AWOS monitoring in the Gulf, monitoring gives the OIM team the availability of each sensor as well as providing the accurate failure rate of the weather boxes created by the AWOS's in the Gulf.

Federal Aviation Administration, Surveillance and Broadcast Services Systems (AJM-421) **Washington, D.C.**
***Systems Engineer* / (Full Time Employee)** May 2020 – February 2024

- Spearheaded the Information System Security (ISS) document process for the Runway Incursion Device (RID) team, facilitating the formulation and revision of essential documents. Presented briefs to RID leadership, showcasing a deep understanding of system security principles and programmatic processes, advancing project milestones significantly.
- Initiated the development of a Standard Operating Procedure (SOP) document to streamline map changes transmission between ASDE, SBS, and vehicle ADS-B systems. Eliminated intermediaries, fostering cohesion among disparate groups and enhancing operational effectiveness.
- Successfully obtained approval for the Preliminary Information System Security Requirements document from the Architecture Review Board. This critical milestone propelled the Runway Incursion Device Tech Refresh project closer to the signatory process, highlighting adept negotiation and communication skills.
- Actively contributing to the Gulf of Mexico team, gaining invaluable insights into programmatic processes related to weather sensor planning, design, and execution. Demonstrating a commitment to expanding knowledge and contributing to cross-functional initiatives.
- Played a pivotal role in formulating and revising essential documents such as the Concept of Operations and Functional Analysis for the Runway Incursion Device Tech Refresh project. Leveraged technical expertise to translate complex information into actionable insights, driving project success.
- Played a pivotal role in formulating and revising essential documents such as the Concept of Operations and Functional Analysis for the Runway Incursion Device Tech Refresh project. Leveraged technical expertise to translate complex information into actionable insights, driving project success.
- Provided vital support to the RID team by assisting in the composition of a comprehensive program requirements matrix excel sheet. Ensured accuracy and validity of requirements, facilitating informed decision-making and project alignment with organizational objectives.
- Delivered impactful information system security guidance to Runway Incursion Device leadership and team members, enabling informed decision-making and proactive risk management strategies.
- Instrumental in ensuring traceability and compliance within the SMR 3 replacement team by meticulously maintaining the traceability matrix. Continuously updated documentation to reflect evolving program requirements, showcasing meticulous attention to detail and project management proficiency.
- Implemented streamlined methodologies, including tracking RID airport site numbers and conducting weekly tag-up meetings, to enhance team collaboration and address project roadblocks promptly and effectively.
- Identified and advocated for critical change proposals and memorandums to rectify errors in the Runway Status Lights (RWSL) System Availability Data Report. Demonstrated exemplary communication skills and meticulous attention to detail, ensuring data accuracy and system reliability.
- Provided comprehensive data analysis for Multilateration Divestiture (MLAT Divestiture), leveraging advanced tools such as MATLAB to identify and characterize critical parameters on a per-track basis. Contributed to informed decision-making and operational efficiency within the organization.
- Demonstrated a commitment to nurturing talent by providing training and mentorship to summer interns at the FAA. Empowered interns with hands-on experience and proficiency in FAA tools, fostering a culture of learning and development within the organization.