Emmanuel C. Ikpo

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CAREER SUMMARY

With MIT Master's Degrees in Mechanical Engineering, Naval Architecture & Marine Engineering Emmanuel Ikpo has served in Senior Program Management and Systems Engineering positions, for very large scale level of efforts in the development of US Defense Technologies, providing both technical and program management support for a variety of government clients such as the Missile Defense Agency (MDA), Department of Homeland Security (DHS), Domestic Nuclear Detection Office (DNDO), Homeland Security Advanced Research Projects Agency (HSARPA), Defense Threat Reduction Agency (DTRA), DARPA, ONR, NAVSEA, US Marine Corps, ARL, MSC, U.S. Coast Guard, foreign Navies and commercial clients. He provided overall management and support for concurrent projects across multiple agencies and stakeholders. He applied risk management techniques, ensured projects are on-track and any risks are identified and properly mitigated. He has served as a conduit between customers, management and project team. Applied best practices to ensure projects run consistently and ensure deliverables are on time. He has an exceptional understanding of technical matters, and formulates problems in creative ways that can lead to unique solutions, with close attention to details. Performed management functions such as planning, cost estimating, budgeting, scheduling, and tracking progress to ensure delivery of quality products on schedule.

KEY SKILLS AND COMPETENCIES

- Program Management
- Government
- Strategy
- Project Planning and Management
- Business Development
- Technology Development
- Research
- Leadership
- Trustworthiness
- Sets and Manages Expectations
- Strategic Planning
- Defense
- Strong Problem Solving Skills
- Systems Engineering
- Development of Defense Initiatives
- National Security
- Proposal Writing
- Public Speaking
- Professionalism
- Sets the Standard of Quality for Assignments

EDUCATION

M.S. Mechanical Engineering, MIT
M.S. Naval Architecture and Marine Engineering, MIT
B.S. Marine Engineering, Massachusetts Maritime Academy,
Third Assistant Marine Engineering License, U.S. COAST GUARD Certificate.
Defense Technology Development Professional Certificate, Georgia Institute of Technology
PMP Certification Training, Project Management Institute (PMI)

CLEARANCES:

Top Secret (TS), CNWDI, Restricted Data, COMSEC

CAREER HISTORY

Advanced Management & Technology, Inc. 2012 - Present

Director

Responsible for managing various programs including interfaces with several agencies and think tank groups providing solutions to both current and future critical technological challenges. He applied risk management techniques, ensured projects are on-track and any risks are identified and properly mitigated. Performs management functions such as, planning, scheduling, and tracking progress to ensure delivery of quality products on schedule. Maintains good customer relationships and seek for ways to expand business opportunities.

Science Applications International Corporation (SAIC) 2004 – 2012

Principal Systems Engineer

Program Manager and Principal Systems Engineer at SAIC, supporting various Department of Defense and other Government agencies.

- Program Manager and Principal Systems Engineer in support of the Missile Defense Agency (MDA) large scale programs, meeting both strategic and tactical mission objects. Applied specific expertise in defining threat requirements, verification and assessment analysis requirements, and Modeling & Simulation (M&S) requirements to ensure a complete assessment of the Ballistic Missile Defense Systems (BMDS). He applied Systems Engineering Plan (SEP) and provided technical leadership in the development and delivery of the BMDS Capability Assessment Plan (CAP) including Systems Engineering and Assessment Report (SEAR). Continually interact with senior government personnel, both military and civilians, to discuss program development and deliverables.
- Provided both Program Management and Systems Engineering support to DHS, DNDO Systems Engineering and Architecture Directorate, HSARPA Science and Technology Office, and DTRA Advanced Systems and Concepts Office. Task Manager for the DNDO Radiological and Nuclear Countermeasures System Architecture (RNCSAA) program. He performed preliminary risk analysis using exiting RNCSAA Risk Model to determine changes in the probability of detection (Pd) if the concept of SPP were implemented and examined the increased ability to detect overall threats when considering both the Port of Departure (POD) in Canada and Mexico and the Ports of Entry (POE) in the US. He was the Task Manager for the North American Architecture study which supported the US, Canada, and Mexico Security and Prosperity Partnership (SPP) plan.

Booz-Allen & Hamilton – Arlington, VA 1996 – 2004

ASSOCIATE

Technical Manager for various projects relating to systems engineering, technology analysis and assessment, development of defense initiatives, requirement definition, systems concepts development, and technological innovations.

- Developed innovative solutions that challenged current ways of implementing scientific research projects to ensure cost effectiveness with various DARPA program offices.
- Developed a concept for an Unmanned Surface Combat Vehicle (USCV) to support Navy after-next power projection and briefed both DARPA and ONR senior program managers.
- Project Manager, provided the DARPA PM Objective Force with technical and operational analysis for Unmanned Aerial Vehicles (UAVs) as part of defense power projection effort.
- Deputy Program Manager and Senior Survivability Engineer for the US Marine Corp program AAAV. He performed independent review of hull assembly design components, structures and auxiliary systems, evaluation of FEA of structural components including material property evaluation, and supported the prototype vehicle assembly team and delivered the first prototype.

John J. McMullen Associates – Arlington, VA 1985 - 1996

Senior Project Engineer

Senior Project Engineer and provided technical expertise in the areas of ship hydrodynamics characteristics and propulsion vibration analyses for various ship & advanced marine vehicle design and integration programs for U.S.

Navy, U.S. Coast Guard, Military Sealift Command, foreign navies, and commercial clients. He performed several successful advanced engineering studies and applied innovative methods toward the design, development and integration of both combatant and non-combatant vessels.

He performed several engineering studies in support of preliminary design of DDG 51 Class ships. These studies included hull definition, machinery and propulsion systems design, evaluation of topside systems including AEGIS systems, missile systems installation, and deck operations. He participated in an IPT study that reviewed and evaluated the navy battle group operations with the inclusion of the DDG 51 Class weapons and communication systems. He assisted in the preliminary review of C4ISR systems which included battle management requirement, passive and active sensors, and sensors on multiple platforms within a given theater.

PROFESSIONAL AFFILIATIONS

- American Society of Naval Engineers (ASNE)
- Society of Naval Architects and Marine Engineers (SNAME)
- MIT Club of Washington, DC
- District of Columbia Council of Engineers and Architectural Societies (DCCEAS)

AWARDS RECEIVED

- SAIC, Superior Performance Award in Support to MDA National Team.
- Certificate of Appreciation for Outstanding Support to the Ground-Based Midcourse Defense (GMD)
- Booz Allen Hamilton, Awards for various accomplishments
- MIT Bronze Beaver Award; Highest Honor to an Alumni of MIT
- MIT Harold E. Lobdell Distinguished Service Award; 2nd Highest Honor to an Alumni of MIT
- MIT Club of Washington Leadership Award; President
- American Society of Naval Engineers (ASNE) President's Award for Outstanding Leadership

COMPUTER PROFICIENCY

Proficient in computer scientific programming including: Microsoft Office Suite, AutoCAD, and several PC based graphic packages.

Major Clients Supported

- MDA Systems Engineering Team
- DNDO Systems Eng. & Arch. Directorate
- HSARPA Science and Technology Office
- DTRA Advanced Systems Concept Office
- GMD Systems Engineering & Integration Directorate
- Defense Advanced Research & Project Agency (DARPA)
- Office of Naval Research (ONR)
- United States Army Research Lab (ARL)
- Naval Sea Systems Command (NAVSEA)
- Marine Corps System Command
- Naval Surface Warfare Center – Carderock Division (NSWC-CD)
- United State Coast Guard (USCG) HQ

References

Provided upon request