AARON MCDOWELL

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SUMMARY

A successful Integrated Engineering Manager, who has 14+ years in aerospace-mechanical systems with vast technical project management experience, now seeking an Program Manager role. Detail-oriented, highly motivated engineer with years of experience supporting major projects and developing innovative processes. Proven ability to excel in cross-functional product design in collaboration with multidisciplinary departments. An established subject matter expert on visual systems and multiple aircraft systems. Instrumental in improving efficiency and decreasing costs. Works independently with minimal guidance and enjoys contributing as a part of a team independently with minimal guidance and enjoy contributing as a part of a team.

CLEARANCE

- Top Secret - Active

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, Scheller College of Business **Atlanta, GA**
Master of Business Administration (MBA) *(Expected Graduation) May 2027*
- Concentration(s): Technology Innovation: Generating Economic Results, Strategy

THE OHIO STATE UNIVERSITY, College of Engineering **Columbus, OH**
Master of Science, Mechanical Engineering *May 2017*

GEORGIA INSTITUTE OF TECHNOLOGY, Daniel Guggenheim School of Aerospace Engineering **Atlanta, GA**
Bachelor of Science, Aerospace Engineering *May 2013*
- Minor: Material Science and Engineering
- Leadership: National Society of Black Engineers (NSBE) -Treasurer , Design Build Fly Club -Empennage Build Lead

PROFESSIONAL EXPERIENCE

Lockheed Martin, Rotary and Mission Systems **Marietta, GA**
Integrated Engineering Manager, June 2025- Present
- Managed a cross functional team or 20 director reports while maintaining 85%> staffing assignment allocation.
- Led an ~$ 140M program as Lead System Engineer with an 95% on time delivery rate of 3 Full Flight simulators.
- Developed 3 Engineering Processes to address skill gap for 3 employees with less than 5 years of experience .

Deputy Program Manager /Engineering Modification Manager, April 2023- June 2025
(Advanced Technical Leadership Program Staff Engineer)
- Managed a cross functional team 20 employees to fulfill $30 million FFP contract with an early delivery by 1 month.
- Led 3 ACTS FFP proposal submittals from Request for Proposal to Contract Award to account for ~ $12 million in ACTS portfolio sales.
- Led a proposal team of 15 employees of various functions, to submit ~8 proposals in FY23 with on time submittal of ~95 %.
- Led the ACTS program in 1LMX efforts (PEP savings, EAC efficiency and MBE) to account ~$2 million to portfolio savings for FY 23 and ~$10 million in FY24.

Proposal Engineer, August 2023- January 2024
(Advanced Technical Leadership Program Staff Engineer)
- Created 2 proposal technical volumes to define 15 training devices and contract , logistics, and services for the United States Navy.
- Managed the engineering proposal team of 7 engineers to support 15 aircrew training device proposal
- Led an hybrid Agile scrum for an 20+ person proposal team to address daily findings and support an on time proposal delivery.

Staff Systems Engineer, January 2022- April 2023
- Led an engineering team composed of 3 junior engineers across 6 Various AFSOC USAF products.
- Delivered 5 full flight simulators that have cataloged ~ $15 million in payment milestones for the AFSOC/ACC USAF program.
- Led multiple ~ 5 data collection efforts for new and upcoming AFSOC proposal programs to resolve 10 flight system discrepancies.
- Managed a $7 million engineering budget, as a CAM, for the AFSOC engineering functions which resulted $1.3 million underrun due to Earned Value Management efficiencies .

Senior Systems Engineer, October 2018-January 2022
- Led the Israel FMS program as Engineering Program Manager. Successfully led the IPT team through HSI and the start of CVT
- Developed over 50 new system requirements to support the development and design of a new aircraft simulator system. Completed multiple system requirements verification and validations for multiple delivered AFSOC devices using DOORS.
- Lead 5 simultaneous simulator projects, while maintaining a ~ $10 million engineering budget across all projects.

- Trained and led an engineering team composed of 3 junior engineers on the verification and validation process for system engineering.
- Coordinated and successfully led multiple System Requirements Reviews, Engineering Design Reviews, and Conceptual Design Reviews for multiple USAF devices.
- Coordinated the development of the Visual Systems Subject Matters Expert team, with Managers and Subcontractor Program Managers.
- Executed multiple System Engineering Lifecycle test and integration events to support weapon system trainer's device delivery for USAF Programs. Each successful device delivery averaged an $ 8 million payment to the Lockheed RMS C-130J Maintenance And Aircrew Training System (JMATS) team.
- Collaborated with customers and subcontractors to develop and design the first simulated special operation air mission suite enhanced situational awareness system for aircraft trainers

GE Aviation **Cincinnati, OH**

Engineering Project Manager, September 2017-October 2018

- Managed a $ 1 million budget to upgrade a 25-year-old combustion test facility. The project included an expansion joint redesign to meet ASME B31.1 power piping code regulations and OHSA safety regulations.
- Coordinated and led a detailed thermal and mechanical analysis of ANSI/ ASME B16.5 class 1500 flanges, which resulted in a ramp rate increase from 6 degrees Fahrenheit per minute to 10 degrees Fahrenheit per minute. Decreased test cell warm-up and cool-down time by 40%.
- Collaborated with multiple technical specialists to fix multiple test cell issues and develop a routine maintenance regime for test cells to lower repair and maintenance costs.

GE Aviation (Edison Engineering Development Program) **Cincinnati, OH**

General Electric Next-generation ("GEnx') Customer Technical Program Engineer, January 2017- October 2017

- Coordinated and lead in trial testing of new wash procedures for GEnx engines.
- Planned the release of the new GE wash procedure and performed the first on-wing wash for GE's customers in the Middle East, which improves the fuel efficiency by 0.5% and exhaust gas temperature by 15 °F.
- Led the implementation of an additive-manufactured engine air seal and analysis of its performance for the GEnx engine families, which decrease the cost per engine by $8,000.

Military Control Systems Engineer, March 2016 – August 2016

- Developed and tested 137 of 200 test vectors in two months for Dry Rig FADEC testing.

Leading Edge Aviation Propulsion ("LEAP") Steady State Performance Engineer, August 2015 - March 2016

- Developed an exhaust gas deterioration tool that allowed the airframer to predict the effect of deterioration on life for compliance flights.
- Prepared and trained Polish engineers on performance engine test coverage and data reduction techniques for their first engine test in Poland.

Passport 20 Technical Project Engineer, August 2014 - August 2015

- Collaborated with multi-disciplinary engineering teams to design engine modifications to satisfy certification requirements. Engineered structural modifications for the Passport 20 and LEAP 1A/C engine families.
- Helped enhance safety and quality specifications, improved systems to meet FAA standards, and communicated with regulatory authorities for approvals on design deviations.
- Analyzed project proposals and engineering data concerning engine assembly and teardown to determine feasibility, production time, and costs.
- Performed six key engine certifications while maintaining a first-time yield of one. Executed three of the six tests two weeks ahead of schedule.

Advanced Concepts Engineer, July 2013 - August 2014

- Developed and tested emerging technology component cycle models with the support of the United States Military. The component will raise the engine's overall pressure ratio and thermal efficiency.

CORE COMPETENCIES

- Program Management
- Project Engineering
- Geometric Tolerancing & Dimensioning
- Project Planning & Documentation
- Proposal Management
- Requirements Development
- Design of Mechanical Lube Systems
- Assembly, Testing, and Overhaul
- Agile Sprint Execution
- Government Services
- Structural Design & Build Management
- Verification & Validation

PROFESSIONAL DEVELOPMENT

Skills: ANSYS, AutoCAD, MATLAB, NPSS, Simulink, UG, NX, PLMi, JIRA, Tableau, Linux , DOORS, Microsoft Office and Solid Works
Certifications: Agile SAFe Product Owner/Product Manager Certification, Cost Account Management (CAM) certification
Awards: Black Engineer of the Year Award- Modern Technology Leader (2022)