

THOMAS BOCK, PH.D.

Data, Analytics & Operations Research Leader

Hampton, VA | Active **TOP SECRET Clearance** | Fluent in German

thomasbock.net | (301) 908-3879 | thomas.bock@thomasbock.net

EXECUTIVE IMPACT SNAPSHOT

- Trusted advisor to senior military leadership delivering analytical briefings up to the **4-star level**
- Directed enterprise-scale data migration and analytics initiatives supporting **11M+ records/500K+ users**
- Led cross-functional DoD and NATO teams supporting analytics, interoperability, and mission execution
- Delivered automation and analytics capabilities improving enterprise data quality and decision effectiveness

EXECUTIVE SUMMARY

Data, Analytics & Operations Research Leader with **15+ years of experience** supporting DoD, NATO, and Fortune 500 organizations. Expertise in enterprise data migration, ETL automation, systems integration, data architecture, and analytics within complex defense environments. Active **TOP SECRET–cleared professional** supporting senior-level decision-making, operational analysis, and cross-functional technical leadership.

CORE EXPERTISE & TECHNICAL SKILLS

Leadership & Strategic Engagement

- Executive Stakeholder Engagement | Cross-Functional Leadership | Technical Leadership | Senior Briefings

Defense & Operational Environments

- DoD & NATO Operational Environments | Joint Test & Evaluation | Defense Modernization Programs

Data Platforms & Engineering

- Enterprise Data Platforms | Data Migration | ETL Development | Systems Integration

Data Architecture & Analytics

- Data Architecture (DoDAF / NIEM / XML) | Data Modeling | Operational Analytics | Data Governance

Operations Research & Statistical Analysis

- Operations Research | Modeling & Simulation (M&S) | Statistical Analysis | Design of Experiments (DOE)

Tools, Automation & Technologies

- Alteryx | SQL | Python | Oracle | VBA | SharePoint | ERP Systems | Workflow Automation

CAREER HIGHLIGHTS

- Built automated Navy RMI migration framework enabling scalable enterprise data integration
- Developed Fleet readiness analytics database supporting 4-star operational decision-making
- Delivered ETL automation accelerating large-scale legacy system modernization efforts
- Supported NATO interoperability initiatives advancing coalition analytics and operational integration
- Awarded **CACI Encore Excellence Award** for mission performance exceeding customer expectations
- Received **BAE Systems Chairman's Award** supporting Army TRADOC analytics modernization initiative

PROFESSIONAL EXPERIENCE

Nakupuna Solutions / Kapsuun Group | 2021–Present

Senior Data Migration & Analytics Lead

- Direct Navy RMI data migration supporting NAVSAFECEN operational reporting and analytics delivery
- Design ETL pipelines and mappings using Alteryx for legacy-to-modern system data conversion
- Maintain data dictionaries and metadata repositories aligned with SDLC and audit requirements
- Coordinate engineering teams and Navy stakeholders to execute enterprise data integration initiatives

Aether Aerospace (formerly JHNA) | 2024–Present

Senior Operations Research Analyst / Statistician (Part-Time)

- Support Army Aviation S&T programs focused on autonomy, teaming systems, and UAS evaluation
- Lead development of test plans and MOE/MOP metrics for experimental system validation and performance
- Apply ANOVA, Tukey's HSD, and Fisher's Exact Test for structured experimental data analysis

CACI | 2018–2021

Naval Operations Research Analyst / Statistician

- Delivered Fleet readiness analytics and statistical modeling for U.S. Fleet Forces Command
- Led development of readiness analytics database improving operational reporting and decision support
- Developed COA analysis products supporting capability gap mitigation and force readiness planning

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American Systems | 2017–2018

Test Engineer (Lead)

- Led operations research analysis for Joint Laser Systems testing and evaluation programs
- Designed DOE models for system performance assessment and operational effectiveness evaluation
- Supported engagement modeling, effects estimation, and structured test reporting for defense use

Cervello Global Corporation | 2016–2017

Senior Systems Engineer

- Supported NATO interoperability and mission thread validation across CIAV and joint test programs
- Evaluated NIEM/XML standards supporting coalition data exchange and interoperability
- Contributed to IPT development of a communications framework enabling coalition information sharing

American Systems | 2014–2016

Senior Operations Research Analyst

- Conducted operational test analysis for ATEC and Joint Test Unit assessments and doctrine evaluation
- Performed OR analysis for directed energy systems and laser engagement testing programs and trials
- Developed TTP and post-test analytical reporting supporting operational test and evaluation outcomes

EARLIER EXPERIENCE

Kern Technology Group | 2013–2014 – Researcher / Innovator (Part-Time)

- Applied modeling, simulation, and RegEx automation supporting ONR research and mission analysis

American Systems | 2012–2014 – Senior Modeling & Simulation Analyst

- Developed DOE frameworks and M&S analysis supporting COMOPTEVFOR AIM-9X-2 assessments

BAE Systems | 2010–2012 – Data Manager / Systems Analyst

- Led Army data integration and workflow automation supporting operational decision systems

Scientific Research Corporation | 2006–2010 – Senior Analyst

- Contributed to joint test analysis, DoDAF architecture development, and operational data integration

The Sigmon Group | 2003–2006 – Consultant

- Supported NATO ACT transformation through stakeholder analysis and strategic planning support

Accenture | 2000–2002 – Consultant

- Delivered Oracle ERP migration and enterprise data integration for large-scale business systems

MILITARY SERVICE

German Navy | 1992–1999

Senior Chief Petty Officer (E-8)

- Participated in NATO Personnel Exchange Program advancing allied operational integration
- Managed logistics and financial systems enabling fleet readiness reporting and operational accountability
- Contributed to simulation facility operations supporting mission readiness training and evaluation programs

EDUCATION

- Ph.D., Engineering Management – Old Dominion University
- M.E., Modeling & Simulation – Old Dominion University
- B.S.B.A., Information Systems – Old Dominion University

PUBLICATIONS

Research focused on Modeling & Simulation, DoDAF data architecture, distributed test systems, and operational analytics methodologies.