

THOMAS BOCK, PH.D.

Data, Analytics & Operations Research Leader

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

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EXECUTIVE IMPACT SNAPSHOT

- Trusted advisor to senior military leadership delivering analytical briefings up to the **4-star level**
- Directed enterprise data migration supporting **11M+ records, 500K+ users, and \$5M annual savings**
- Led cross-functional DoD and NATO teams delivering mission-critical data modernization initiatives
- Leveraged AI-assisted workflow automation and analytics to support enterprise modernization

EXECUTIVE SUMMARY

Data, Analytics & Operations Research Leader supporting DoD, NATO, and Fortune 500 organizations through enterprise data modernization, analytics, and digital transformation initiatives. Expertise in large-scale data migration, ETL automation, systems integration, data architecture, operational analytics, and executive decision support. Active **TOP SECRET-cleared leader** recognized for translating complex technical challenges into actionable business and mission outcomes.

CORE EXPERTISE & TECHNICAL SKILLS

Leadership & Strategic Engagement

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

Defense & Operational Environments

- DoD & NATO Operations | Joint Test & Evaluation | Defense Modernization | Operational Readiness

Data Engineering & Modernization

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

Data Analytics & Architecture

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

Operations Research & Statistical Analysis

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

Technologies & Automation

- SQL | Python | Alteryx | Power Query | Oracle | AI-Assisted Analytics | VBA | Workflow Automation

CAREER HIGHLIGHTS

- Built automated Navy RMI migration framework enabling enterprise-scale data modernization
- Developed Fleet readiness analytics database supporting 4-star operational decision-making
- Delivered enterprise ETL automation accelerating large-scale data migration initiatives
- Supported NATO interoperability initiatives advancing coalition data exchange 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

PROFESSIONAL EXPERIENCE

Nakupuna Solutions / Kapsuun Group | 2021–Present

Senior Data Migration & Analytics Lead

- Direct Navy enterprise RMI data migration supporting NAVSAFECEN reporting and analytics
- Design ETL pipelines and data mappings using Alteryx for legacy-to-modern data transformation
- Maintain data dictionaries, metadata repositories, and governance artifacts
- Lead cross-functional teams and Navy stakeholders to deliver mission-critical data integration

Aether Aerospace (formerly JHNA) | 2024–2026

Senior Operations Research Analyst / Statistician (Part-Time)

- Supported Army Aviation S&T initiatives involving autonomy, teaming systems, and UAS evaluation
- Led development of test plans, MOEs, and MOPs supporting operational system validation
- Applied advanced statistical methods including ANOVA, Tukey's HSD, and Fisher's Exact Test

CACI | 2018–2021

Naval Operations Research Analyst / Statistician

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

American Systems | 2017–2018

Lead Test Engineer

- Led operations research supporting Joint Laser Systems operational test and evaluation programs
- Designed DOE models supporting operational effectiveness and system performance assessments
- Supported engagement modeling, effects estimation, and operational reporting for defense programs

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 communications frameworks enabling coalition information sharing

American Systems | 2014–2016

Senior Operations Research Analyst

- Conducted operational test analysis supporting ATEC, Joint Test Unit, and doctrine evaluations
- Performed operations research supporting directed-energy systems and laser engagement testing
- Developed TTP and post-test analytical reporting supporting operational test and evaluation

Kern Technology Group | 2013–2014

Researcher / Innovator (Part-Time)

- Conducted ONR-sponsored research supporting strategy, management, and systems modeling
- Applied RegEx pattern analysis to automate data parsing, reduction, and transformation routines
- Delivered innovative research solutions supporting technology-sector initiatives

American Systems | 2012–2014

Senior Modeling & Simulation Analyst

- Assessed naval acquisition programs supporting COMOPTEVFOR operational test activities and evaluations
- Evaluated DOE methodologies, orthogonal designs, and AIM-9X-2 operational effectiveness measures
- Developed DoD-compliant accreditation plans and reports supporting program accreditation

SELECTED PRIOR EXPERIENCE

BAE Systems | Data Manager / Systems Analyst

- Led Army data integration and workflow automation initiatives

Scientific Research Corporation | Senior Analyst

- Supported joint test analysis, DoDAF architecture, and operational data integration

The Sigmon Group | Consultant

- Supported NATO ACT transformation and strategic planning initiatives

Accenture | Consultant

- Delivered Oracle ERP migration and enterprise data integration solutions

MILITARY SERVICE

German Navy | Senior Chief Petty Officer (E-8)

- NATO Personnel Exchange Program
- Fleet logistics, financial management, and operational readiness
- Simulation, training, and mission support operations

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

Published research in Modeling & Simulation, DoDAF data architecture, distributed test systems, and operational analytics.