ABHIJIT DAS, Ph.D.

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LinkedIn: adas7232 — Energy & Strategy Publications — U.S. Citizen

EXECUTIVE PROFILE

Engineering and Energy Systems Leader with 15+ years of experience delivering complex electrification programs in regulated and infrastructure-constrained environments. PhD in Electrical Engineering (4,000+ citations) and Duke Executive MBA candidate. Known for aligning large-scale BEV platforms with grid capacity realities, regulatory milestones, and cross-functional execution. Proven record of delivering $10M+ in cost savings, leading multi-disciplinary teams, and driving structured decision-making across high-stakes programs.

EDUCATION

Duke University, Fuqua School of Business **2024 – 2026 (Expected)**
Executive MBA Durham, NC

- Executive focus on capital allocation and financial decision-making (NPV, IRR, WACC) for technology-driven organizations.
- Applied strategy and value chain analysis to complex industrial and infrastructure systems.
- Coursework in organizational leadership, competitive strategy, and market-driven decision frameworks.

University of Texas at Arlington **2006 – 2010**
Ph.D. in Electrical Engineering (Nonlinear and Adaptive Control Systems) Arlington, TX

- Recipient of Dean Dissertation Fellowship and STEM Doctoral Fellowship.

CORE EXPERTISE

- Energy Systems Strategy: Grid-Constrained Electrification, Transmission Congestion Awareness, Load Growth Planning, Zero-Emission Technology Pathways, V2G Infrastructure Alignment.
- Leadership & Governance: Cross-functional Program Leadership, Executive Decision Reviews, Agile/DevOps Integration, Regulatory Compliance, Mentorship.
- Financial & Strategic Analysis: Capital Allocation (IRR/WACC/NPV), Energy Market Signals (LMP/ISO Awareness), Risk Management under Infrastructure Constraints.
- Technical Foundation: Systems Engineering, Control Systems, Vehicle Architecture, Heavy-Duty Electrification.

PROFESSIONAL EXPERIENCE

Volvo Trucks North America **2021 – Present**
Lead System Strategist – Battery Electric & ICE Trucks Greensboro, NC

- Provide system-level leadership for 5 concurrent BEV and ICE vehicle programs, aligning electrification roadmaps with regulatory milestones, charging readiness, and heavy-duty grid capacity constraints.
- Direct coordination across engineering, validation, purchasing, and compliance organizations; own prioritization, trade-offs, and delivery sequencing for major platform commitments.
- Co-chair, SAE Heavy Duty Charging Consortium; influence international standards for vehicle-to-grid interfaces and large-load electrification integration.
- Replaced legacy decision processes with structured governance workflows, materially improving transparency, review readiness, and executive decision velocity.

Omni Powertrain Technologies **2020 – 2021**
Engineering Manager – Electrical Houston, TX

- Established and led the North American eMobility engineering function, scaling capability to support fully electric and hybrid vehicle programs.
- Increased project success metrics by 60% and improved organizational efficiency by 30% through disciplined Agile and Azure DevOps implementation.
- Directed cross-regional technical execution to meet customer, regulatory, and maintainability requirements.

Halliburton **2019 – 2020**
Principal R&D Engineer Houston, TX

- Delivered $10M+ in cost savings by developing predictive modeling and simulation frameworks that reduced physical testing and capital expenditure.
- Introduced Agile and version control discipline across global R&D teams, accelerating time-to-market and improving cross-team collaboration.

Danfoss & Caterpillar Inc. **2010 – 2019**
Engineering Roles – Controls, Systems, Product Strategy USA

- Led engineering initiatives that secured over $1M in new customer contracts across advanced electrified platforms.
- Optimized validation cycles and compliance processes, improving product reliability and accelerating market entry for energy-intensive equipment.

STRATEGIC ENGAGEMENTS & RESEARCH

Applied Research: Energy Markets & Innovation **2026**
Fuqua School of Business, Duke University

- Developed an applied framework for mitigating U.S. transmission congestion using GETs and flexible demand coordination under reliability and market constraints.

Student Consultant — Fuqua Client Consulting Practicum **Jan 2025 – June 2025**
Client: Tapestry Networks

- Led go-to-market strategy development for executive education initiatives, delivering pricing and positioning recommendations using structured competitive frameworks.

AWARDS & RECOGNITION

- Technical and Service Excellence Award (2017)
- Certificate of Appreciation for cross-functional leadership (2016)
- Secured $1M+ in new customer contracts
- Delivered $10M+ cost savings through simulation-driven optimization

PATENTS & TECHNICAL CONTRIBUTIONS

- Holder of 5+ granted and pending patents across electric vehicle systems, control architectures, and fluid power technologies.
- Author of technical publications in nonlinear and multi-agent control systems with 4,000+ academic citations.
- Full list of patents and publications available at: abhijitdas.info/publications

AFFILIATIONS

- Co-chair, SAE Heavy Duty Charging Consortium
- Senior Member, IEEE