Dr. Shari Feth

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EXECUTIVE CAREER SUMMARY

Senior Executive with 38 yrs. experience in Leadership; Oversight/Governance Boards; Financial Execution, ($250-650M/year); Technology, Engineering and Science Management (Directed Energy, Hypersonics, Sensors, Artificial Intelligence (AI), Cyber Security, etc.); Engineering; International Programs; Test; Research and Development.

Specific skills: Strategic Planning/Vision; Congressional Communications; External/ Internal/ International Collaboration & Interagency Coordination; Workforce Development; Integrated Programs; Innovation; Technology; Financial Execution; Risk Management

SIGNIFICANT CAREER ACCOMPLISHMENTS

- Radically improved **financial execution**, aligning expenditures to fiscal year and Presidential Budget process - this coupled with **leveraging coordination and external interaction opportunities** allowed the organization to execute ~$200M/year over the allocated budget, retaining talent and technical progress despite a 70% budget cut.
- Led the **Department of Defense (DoD)** Global Sensor **Analysis of Alternatives (AoA)** by building a **coalition** of **over 400 people with diverse and dissenting views** - resulting analysis established the **technical and financial rationale** for the DoD's **$3B/yr investment** in Global Sensors, briefing was **approved by the SecDef** and **recognized** as an unbiased, accurate and transparent assessment.
- Developed a **new approach to transition technology** focused on the **needs of stakeholders** and a Science & Technology Council to increase the breadth and coordination of Agency investments – **broke down stove-piped** development efforts, **increased coordination** and **expedited the number and speed of technology transition** into a capability. The **Undersecretary of Defense** for Research and Engineering **established a similar approach** ~6 months after hearing of this approach.
- Continuously monitored employee **feedback and performance** to ensure **workforce engagement**, **efficiency** and development; maintained a high-performance team by building an environment of **communication** and **inclusion** – received DoD's highest performance rating for an Executive in the category of Leading People and the highest scores on an employee survey.

RELATED QUALIFICATIONS & INFORMATION

Certification: Harvard Business School – Fall 2022; enhanced skills in board governance & effectiveness, ESG issues, committee structures and functions (audit, compensation, risk, etc.)

Related Experience: President of Homeowners Association Board, Principal on DoD Governance Boards, Board member for non-profit organization

EXPERIENCE

Consultant, Advisor, CEO, FethTec, LLC, Synovix, 8ORCAS

Provide strategic guidance and direction for innovative technology fields

Director, Innovation, Science & Technology / Program Executive, Advanced Technology, Senior Executive Service, Missile Defense Agency (MDA), Civil Service

Provided strategic governance for DoD technologies, manufacturing and the industrial base on oversight boards (16) and developed the vision, return on investment and strategic direction for missile defense innovation, rapid prototyping, artificial intelligence and advanced technology efforts. Established Program transformation opportunities for increased capability and more efficient operations leveraging innovation efforts in the US and abroad.

- Principal on Congressional and DoD strategic Governance boards addressing pressing DoD issues such as: industrial base/supply chain management; microelectronics; additive manufacturing; hypersonics; and directed energy

- Chaired the DoD incentive awards board ensuring deserving employees receive the appropriate awards and maintaining the standards for qualification criteria.
- Strategically guided technology investments, programs, and budgets, led up to 300 scientists, technologists, engineers and business professionals executing up to a ~$650M/year portfolio.

Director, Science and Technology, Senior Scientist (Technical executive), MDA

One of only ~360 Senior technical experts in the US Government.
Developed the MDA Science and Technology vision - formed the foundation used today.
Balanced technology investments and ensured sufficient technological depth for the future.
Tightened the alignment of Technology investments to MDA mission and program needs.

Deputy Chief Architect/ Study Director, Global Sensors Analysis/ Chief Engineer/ Chief Systems Engineer/ Test Mission Manager, Senior Engineer, MDA

Established architectures, led risk management, implemented technical operations, and set engineering policy/ guidelines while improving Government oversight and workforce development.
Transformed modeling and simulation efforts, establishing in-house capability for faster and more cost-effective Congressional inquiry responses.
Managed test events "cradle to grave" (often without direct budget authority), and ensured high quality, accurate legislative documents and external communications.

Test Director/ Lead Engineer, L-3 SYColeman

Managed multi-company execution; led information technology connections including ensuring proper procedures for cyber security; coordinated with foreign nationals; and ensured export control and International Traffic in Arms Regulations (ITAR) restrictions were followed.
Built a single cohesive system test capability by making the first connection of geographically dispersed simulation networks - still used today.

Senior Systems Engineer, Jacobs Engineering (Sverdrup)

Liaison between multiple NASA centers, areas of expertise, and Contractors, establishing communications and representing stakeholder interests resulting in agreement on analysis results and risk management strategies.

Principal Investigator/ Project Scientist/ Contract Monitor/ Senior Research Scientist, University of Alabama in Huntsville

Conducted cutting edge research and presented results at international conferences and in peer reviewed journals, furthering the understanding of semiconductors.
Developed communication, requirements and execution across the science and engineering teams.

Research Scientist, Raytheon/Hughes, STX

Wrote research proposals, conducted research and managed efforts, predominately characterizing semiconductor crystals/ crystal growth and developing in-situ optical characterization methods.

Early Technical Positions / Post-Doctoral Positions

Early positions focused on fundamental research and engineering – details available on request

EDUCATION

Ph.D. Materials Engineering Science, Virginia Polytechnic Institute & State University (Virginia Tech); Specialty: Crystal growth/Crystallography; semiconductors, ceramics, analysis techniques

M.S. Electrical Engineering, Virginia Tech; Specialty: Electro-magnetic fields, Sensors, Fiber Optics, Lasers, Non-Destructive Testing

B.S. Electrical Engineering, Virginia Tech; Specialty: Electro-magnetic fields, Sensors

ADDITIONAL INFORMATION

Clearance: Final TS/SCI (active) **Foreign Languages:** French, German (novice)

PATENT/ PUBLICATIONS

Patents: **Sapphire Optical Fiber Interferometer,** Patent no. 5,381,229, 1/10/95
Publications: 15 refereed Journal Papers and 7 additional conference proceedings/presentations