Form Name:	National Armaments Consortium (NAC) Executive Committee Member Application Form 2026
Submission Time:	July 17, 2026 10:18 am
Browser:	Safari 26.5.2 / OS X
IP Address:	146.75.249.30
Unique ID:	1480342403
Location:	34.2283, -77.9519

CANDIDATE INFORMATION

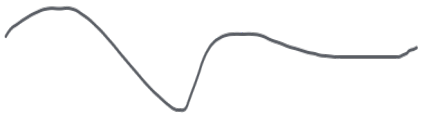
Name	David Robinson
Title	CEO
Organization	Corvid Technologies
Organization Type	Small Business
Address	
Email	
Phone	

CANDIDATE STATEMENTS

Explain how your background, training, experience and/or personal qualities support your candidacy to assume a governance position on the Executive Committee. Provide resume as a separate attachment.	I have been working for the NAC and OTA's for many years. I also am the founder and CEO of Corvid Technologies, a rapidly growing non-traditional defense contractor supporting all of the services as well as all of the major prime defense contractors.
Supporting Attachment(s)	
What do you see as the most significant challenge(s) facing the business type you will represent and how would you propose to address those challenges if elected?	Non-traditional and small defense contractors most significant challenge is the complexity of the contracting approaches for the DoD.
Please describe the importance of the NAC to your organization and provide a synopsis of the participation in NAC/DOTC since becoming a member (e.g., number of proposal submissions, awards, industry days and membership meeting attended).	Corvid Technologies has won well over $1-billion in defense contracts through the various OTA's (NEST, DOTC, AMTC, etc) over the past 10-years, so this is a critical path for my business to continue to grow and thrive in our support of the defense department.

WILLINGNESS TO SERVE CERTIFICATION

Signature



Date 07/16/2026

David Franklin Robinson, Ph.D.

Education

Doctor of Philosophy, Aerospace Engineering **May 1997**
Minor in Mathematics
North Carolina State University - Raleigh, North Carolina
Thesis Topic: "A Study of Turbulent Separated Flows"
Grade Point Average: 4.0/4.0 Major
3.7/4.0 Minor
Selected Coursework: Turbulence, Hydrodynamic Stability & Transition, Physical Gas Dynamics, Computational Reacting Flow, Computational Fluid Dynamics, Incompressible Flow, Compressible Flow, Numerical Analysis, Advanced Calculus, Complex Variables

Master of Science, Aerospace Engineering **Sept. 1994**
Minor in Mathematics
North Carolina State University - Raleigh, North Carolina
Thesis Topic: "A Unified Two-Equation Turbulence Closure Model for Wall Bounded Flows and Free Shear Layers"
Grade Point Average: 4.0/4.0 Major
4.0/4.0 Minor

Bachelor of Science, Aerospace Engineering **May 1992**
Minor in Computer Science
North Carolina State University - Raleigh, North Carolina
Grade Point Average: 3.78/4.0 Major (Cum Laude Honors)
3.50/4.0 Minor
Selected Coursework: Aerodynamics, Propulsion, Orbital Mechanics, Boundary Layer Theory, Automatic Control Theory, Aerospace Vehicle Structures, Solid Mechanics, Statics & Dynamics, Thermodynamics

Professional Experience

September 2020 – Present

Corvid Atea, LLC, Mooresville, NC**.**
Manager:

- Evaluate business opportunities (cost/benefit analysis)
- Ensure profitability/operational efficiency of the company
- Ensure the highest values and mission of the company are instilled, and performed throughout all levels and employees
- Execute legal documents related to offers, proposals, all contracts and agreements and other LLC documentation
- Ensure accurate reporting processes are in place and successfully conducted in 100% compliance with Government regulations
- Manage implementation and utilization of NAICS codes and ensure financial thresholds are not exceeded
- Ensure compliance with SBA reporting requirements
- Coordinate closely with accounting department to ensure accurate invoicing processes are in place and utilized
- Ensure compliance with Federal Acquisition Regulations (FAR)

January 2004 – Present

Corvid Technologies, LLC, Mooresville, NC**.**
CEO:

Leads a team of over 200 engineers and scientists, about 3/4 with master's degrees or Ph.D.'s, that provide end-to-end solutions including concept development, design and optimization, prototype build, test and manufacture. Corvid leverages the predictive capability of our high-fidelity computational physics solvers, indigenous massively parallel supercomputer system, prototyping plant, and ballistics and mechanics lab to investigate a variety of high-rate physics phenomena.

The results are complex engineering solutions for a variety of applications; aircraft, ballistic missile defense, cybersecurity, motorsports, armor development, biological systems, and missile and warhead design and development. These results are achieved with optimal design and cost efficiency due to the predictive capability of Corvid's tools and our in-house, end-to-end integrated approach, which differentiates Corvid from the market.

February 1998 – January 2004

Naval Surface Warfare Center, Dahlgren, Virginia**.**
Weapons Effectiveness and Lethality Branch – Computational Physics Group

The computational physics group primary task is to analyze a variety of next-generation weapon systems for the Department of Defense. Systems level analysis are performed to determine both the effectiveness and lethality of a variety of weapon systems covering the entire engineering spectrum: endo-atmospheric and exoatmospheric missile intercept systems, anti-personnel aerodynamic flachets, penetrator weapons, subsonic to hypersonic missiles, direct hit anti-missile missiles, detonating warhead interceptor systems, and reactive fragment weapons. Additionally, a number of threat weapons were analyzed (bulk-chemical, bomblet, and nuclear) to determine our defensive effectiveness against these systems.

The tools employed during these analysis included computational fluid dynamics, computational structural mechanics, hydrodynamic impact codes, and smooth particle hydrodynamic codes. An emphasis was placed on being able to solve systems level problems using state of the art supercomputers. A number of projects are briefly described below:

Explosive Bolt – Problems encountered during testing led to a re-design of the explosive bolts used to eject the SM3 nosecone from the missile. Computational methods were employed to ensure that the redesigned bolt would work properly without failing during a flight test. Performing the work computationally rather than applying experimental methods achieved a significant cost savings.

Direct Hit – Exo-atmospheric impacts of Navy missiles with a variety of threat targets were performed using hydrodynamic impact codes to determine the lethality and effectiveness and the weapons systems.

Divert and Attitude Control Systems (DACS) – A coupled computational fluid dynamics, thermal analysis, and finite element analysis was performed to determine if the system would survive both the thermal and mechanical loads imparted during flight.

Independent Verification and Validation – A study was performed to both verify and validate a variety of computational methods for hypervelocity (22,000 mph) impact problems.

Research Projects – A variety of topics that fall under a 'basic-research' category were applied. A brief list of these topics include rapid conversion of system geometries from CAD to hydrodynamic codes, unstructured methods for computational fluid dynamics, coupled CFD and finite element analysis, conjugate gradient heat transfer analysis, rapid analysis for external aerodynamics.

September 1997 – February 1998

Naval Surface Warfare Center, Dahlgren, Virginia**.**

Developed Zeus^{++} as a modification to the Zeus Euler solver in order to improve the usability of the code and to improve the cost effectiveness of computational fluid dynamics. The first step was to port the code to a personal computer to reduce the computational costs associated with CFD. Next, a graphical user interface was developed to reduce the training required and to improve usability. And finally, the grid generation procedure was automated to reduce the setup time.

Computer Experience

Operating system experience that includes SYSV UNIX (primarily on Sun and Silicon Graphics workstations), UNICOS (Cray), MS-DOS, Windows, Linux, VAX/VMS and VM. Programming experience includes extensive knowledge of Unix shell, FORTRAN, PASCAL, JAVA, REXX, BASIC, MC68000 Assembly Language, C, C++, and HTML. Vast experience in code production and debugging with an emphasis on vectorization and optimization techniques. Extensive supercomputer experience on vector machines Cray-2, Cray Y-MP, Cray C-90, Cray T-90, and various Convex machines. Proficiency with Fieldview and Tecplot flow visualization and ICEM/Gridgen grid generation software.

Publications

Robinson, D.F., Hassan, H.A., "Further Development of the k-ζ (Enstrophy) Turbulence Closure Model", AIAA Journal, Vol. 36, No. 10, pp. 1824-1833, October 1998.

Robinson, D.F., Hassan, H.A., "Modeling Turbulence Without Damping Functions Using k-ζ Model" AIAA Paper No. 97-2312, June 1997.

Robinson, D.F., Hassan, H.A., "Modeling of Separated Turbulent Flows" AIAA Paper No. 97-0207, January 1997.

Robinson, D.F., Hassan, H.A., "A Two-Equation Turbulence Closure Model for Wall Bounded and Free Shear Flows" AIAA Paper No. 96-2057, June 1996.

Robinson, D.F., Harris, J.E., and Hassan, H.A., "A Unified Turbulence Closure Model for Axisymmetric and Planar Free Shear Flows" *AIAA Journal*, Vol. 33, No. 12, pp. 2325-2331, December 1995.

Stout, C.K., Withers, B.E., Robinson D.F., Bechler B. (Lockheed). "Guidance and Control Software (GCS-SIM) Verification Plan and System Description". Technical Report. Prepared for NASA Langley Research Center under NASA Contract NSA1-17964; Task Assignment No. 8, Research Triangle Institute, Research Triangle Park, NC 27709. August 1990.

Honors and Activities

Cum Laude Honors (1992)
Phi Kappa Phi National Honor Society
Sigma Gamma Tau National Aerospace Engineering Honor Society
Tau Beta Pi National Engineering Honor Society
Pi Mu Epsilon National Mathematics Honor Society
Langley Aerospace Research Summer Scholar (LARRS)
Dean's List
Student Member of American Institute of Aeronautics and Astronautics (AIAA)
Student Member of American Society of Mechanical Engineers (ASME)
Orbital Mechanics for the NASA-JSC/NCSU Calibration Spheres Project (Flew on Space Shuttle STS-60)