

# SKYWARD

Service and Support Above and Beyond,  
Excellence Above All

## LOCATIONS:

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**NAICS CODES:** 541330, 541380,  
541611, 541690, 541715, 561210

**CAGE CODE:** 1BJJ8

**DUNS NUMBER:** 00-223-1525

## SECURITY INFORMATION:

Secret Production, Receipt and  
Storage

**WEBSITE:** [www.skywardltd.com](http://www.skywardltd.com)

## CONTRACT VEHICLES:

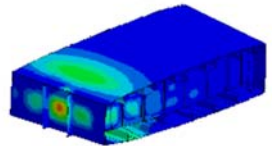
- DOD Information Analysis Center Multiple-Award Contract (IAC MAC) - Subcontract
- Air Force Aerospace Survivability and Safety Office (704 TG/OL-AC) – Subcontract
- Air Force Life Cycle Management Center/Combat Effectiveness and Vulnerability Analysis (AFLCMC/EZJA) – Subcontract
- Army Materiel Systems Analysis Activity (AMSAA) Joint Technical Coordinating Group for Munitions Effectiveness (JTCCG/ME) – Subcontract
- Army PD Contingency Base Infrastructure (CBI) and PD Army Watercraft Systems – Subcontract
- Navy SeaPort-NxG – Prime Contract
- Navy T&E Services and O&M Services, for Weapons Survivability Laboratory – Subcontract
- Multiple Phase I and Phase II Small Business Innovation Research (SBIR) Prime Contracts
- Member: National Advanced Mobility Consortium (NAMC)

## BUSINESS SUMMARY

Skyward Ltd. is a small business headquartered adjacent to Wright-Patterson Air Force Base in Dayton, Ohio. Incorporated in Ohio in 1997, Skyward meets client needs by leveraging its talents, experience, and willingness to partner with other organizations, and its capability to apply knowledge where no other experts exist.

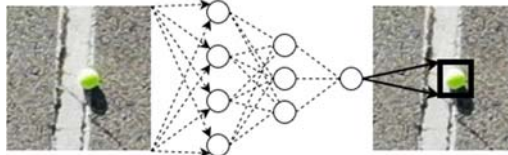
### Modeling and Simulation

- Skyward utilizes a variety of Modeling & Simulation tools to analyze military weapon systems, munitions, and a variety of other systems
- Finite Element Analysis (structural analysis, impact, fluid flow, optimization)
- Scientific Models (fire ignition/sustainment, fluid mechanics)
- Skyward models components, subsystems, weapon systems, and threats, and explores dynamic interactions (air and ground vehicles, structures, munitions/warheads)



### Machine Learning

- Skyward is applying Machine Learning techniques to solve big data problems
- Imagery analysis, Sensor data analysis, combining physics-based simulation with real world data
- Skyward Anomalous Data Onboard Identification System (ADONIS) technology turns sensors into detectors
  - Takes any sensor and combines it with machine learning hardware and custom Artificial Intelligence algorithms to detect anomalies in the data, quickly focusing attention and reducing analysis time



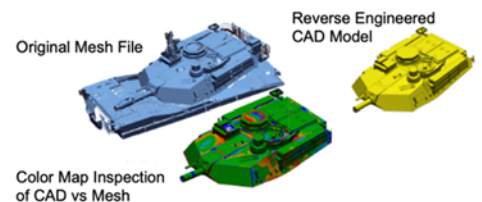
### 3D Services

- Skyward performs 3D scanning and reverse engineering services to capture design data on small parts up to entire aircraft or ground vehicles
- Skyward can perform a variety of design and reverse engineering functions
  - Convert 2D drawings to 3D models
  - Create parametric 3D models for additive manufacturing, FEA, etc.
  - Evaluate tolerance and design integration issues; form, fit and function
  - Perform full dimensional parts inspection



### Test and Evaluation Support

- Test Strategy Development
- Detailed Test Planning, Instrumentation, Logistics, Design
- Pretest Predictions/Modeling and Simulation
- Test Execution, including Oversight and Data Collection
- Data Reduction and Analysis (Design of Experiments)
- Documentation (White Papers, Quick-Look Reports, Detailed Technical Reports)



### Technology Development

- Skyward develops Technology Solutions, often to reduce combat vulnerability
- Enhanced Powder Panel fire protection technology being integrated into CMV-22 aircraft

### Unmanned Aerial Systems

- Developing Technical Solutions Emphasizing Data Collection, Processing, Analysis and the Production of Meaningful Geospatial Products
- Assembled Internal Team of Experts (Engineers, Analysts, FAA-Certified Pilots)
- Utilizing SBIRs and Grants to solve technical challenges for complex missions
  - Wildfire, Airbase Resiliency, Search and Rescue, Anomaly Detection



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