NASA HBCU/MI **Technology Infusion Road Tour Clark Atlanta University March 27 - 28** 2018



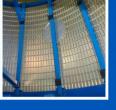


















TELEDYNE ENGINEERED SYSTEMS



Parent Company Teledyne Technologies

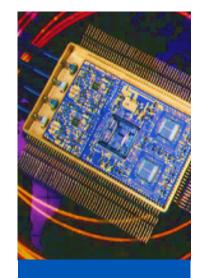


- ► Headquartered in Thousand Oaks, California with locations across the globe
- ▶ \$2.6 B in 2017 revenues; over 10,700 employees
- ► Teledyne Technologies is a leading provider of sophisticated instrumentation, digital imaging products and software, aerospace and defense electronics, and engineered systems. For more information, visit Teledyne Technologies' website at www.teledyne.com.



Teledyne Technologies

Four Segments - \$2.6B 2017



Aerospace and Defense Electronics



Instrumentation



Digital Imaging





Teledyne Engineered Systems Segment

Full-System/Product Life-Cycle Capabilities

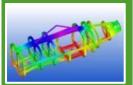
Research and Technologies



Systems Concept Development



Systems
Design and
Analysis



Manufacturing and Assembly



Systems Integration and Test



Management and Operations



Sustainment and Recapitalization



Quality Assurance = Safety Assurance

Full-Spectrum Engineering and Advanced Manufacturing

- ► Engineered Systems Concept definition and prototyping through product lifecycle
- ► Engineering Services Support the customer at any phase of the lifecycle
- Advanced Manufacturing Design and analysis through fabrication, assembly and test, production, and installation and operations



Teledyne Engineered Systems Business Units

Teledyne Brown Engineering

Mission Systems

- Systems Engineering
- Modeling and Simulation
- Test and Evaluation
- Low Cost Missile Targets



Maritime Systems & Manufacturing

- · Army Missile Round Trainer
- Naval Vessel Design and Manufacture
- Mine Seeking Hardware
- LCS Gun Mount

Space Systems

- Mission Planning and Control Center **Operations**
- Payload/Cargo Integration
- Space Flight Hardware



Energy & Environment

- **Chemical Processing Equipment**
- Facilities M&O
- Radiological/Classified Laboratories
- Nuclear

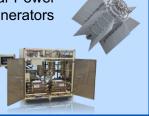


Geospatial Solutions

- Multi-User System for Earth Sensing
- T-Cloud management and archiving
- **Imaging**
- **Space Hardware Qualification**

Energy Systems

- Space Nuclear Power
- **Hydrogen Generators**
- **Specialized Batteries**
- H2/O2 Fuel Cells



CML

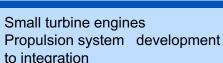
Composite Parts for Commercial and Military Aviation



- Small turbine engines
- to integration









Space Systems

MO&I

Mission Operations and Integration

- Provides ISS payload operations planning and data management and product development for US payloads and laboratory systems
 - Flight control of payload support systems
 - Payload safety control
 - Astronaut and ground support personnel training
 - 24/7 staffing of POIC performing real-time mission operations

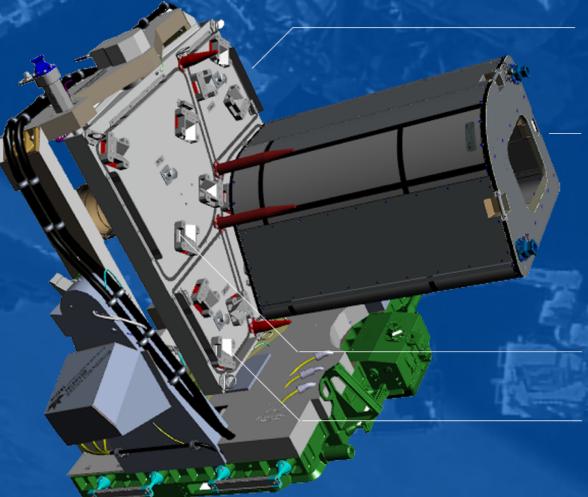
Space Systems

LVSA

Launch Vehicle Stage Adaptor

- Structural Test Article has been qualified for flight by NASA. HUGE accomplishment by the TBE team and cost savings for NASA – TBE team flight qualified a first article without manufacturing an engineering design model first
- ► First Flight Unit is on track to be delivered in Q1 2018

SYSTEM MULTI-USER



SMALL PAYLOAD 1

DESIS

LARGE PAYLOAD 2

SMALL PAYLOAD 2

Geospatial Solutions

MUSES

Multi-User System for Earth Sensing

- ► Successfully launched June 3, 2017 from Kennedy Space Center
- Full operating capability in September 2017
- ► First company to partner with NASA on commercialization of the International Space Station (ISS)
- Designed, developed, deployed and operated aboard the ISS
- Example of full product lifecycle from research to manufacturing and operations
 Telephyne Proprietary

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