Clark Atlanta University's Small Business Summit

Renji Kumar, Ph.D., CEO AMA Inc., Small Business

renji@ama-inc.com



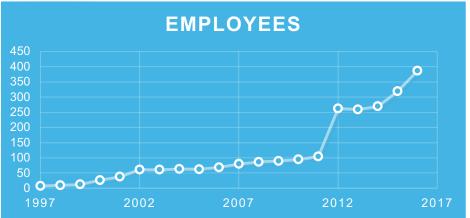
AMA Background

Since 1962, AMA has worked with numerous government and commercial organizations solving tough engineering, mathematical and business problems. AMA combines the best of design and systems engineering with the latest in information technologies and visualization to build creative solutions.

- AMA received NASA 2010 George M. Low award for Small Business Services Category
- AMA named 2010 & 2011 NASA LaRC Small Business Prime Contractor of the Year
- AMA recognized as a "Top 100 Innovator" by InfoWorld









AMA Supports NASA, DoD, & Commercial Customers Across the USA



A Timeline of AMA Success



AMA Core Competencies

Tomorrow's Vision...

...Today's Solution

Engineering

Guidance, Navigation & Control

Systems Analysis & Design

Systems Engineering

Modeling & Simulation

Fluid Dynamics

Mechanical Design

Structures & Materials

Propulsion

Information Technology

Web-based Collaborative Environments

Software Integration & Customization

Web Design & Development

Data Presentation

Product Data Management

Mobile Applications

Multimedia & Visualization

3D Modeling

3D Animation

Interactive Multimedia

Virtual & Augmented Reality

Graphic Design

Print Media

Program Analytics

Decision Support Software Development

Data Analytics

Configuration & Data Management

Predictive Modeling

Scheduling

Numerical Optimization

Cost Estimating & Analysis



AMA Innovates - 2018 SBIR Pursuits

SBIR Title	Location	PI	
Deployable Aerodynamic Decelerator Technology	Denver	Mike Coleman	
Mars Surface Solar Array Structures	Denver	Matt Duchek	
High Power Arrays for Solar Electric Propulsion	Denver	Matt Duchek	NASA
omputational Tools and Methods Santa C		Jeff Hill	A Z
Integrated Science Mission Modeling	Hampton	Samantha Infeld	
Flight Dynamics and Navigation Technology	Hampton	Haijun Shen	
Innovative Aerodynamic Control Surface for Small-to-medium-caliber Gun-launched Munitions	Santa Clara	Dan Pruzan	Q
Techniques for Real-time Hypervelocity Projectile Fly-out Generation and Optimization	Hampton	Jake Tynis	DoD



AMA Product Development

Technology	Technology Type	End Goal	Patentabilty	Game Changer	Capability over SOA	Technical Risk Level
Optically Stimulated Electron Emission	Mechanism	Sale Product	Patent Pending	Υ	High	Moderate
Actively Stabilized Drogue Refueling Systems (ASDRS)	Mechanism	License product	Patent Pending	Υ	High	Moderate
Green Propulsion System	Propulsion	Sale Product	Low	N	Low	Low
Gossamer Deorbit System	Deployable Structures	Sale or License Product	Assigned	N	Moderate	Low
Tensioned Rollable Ultralight Solar Array System (TRUSS)	Deployable Structures	License product	Patent Pending	Υ	High	Moderate
Drop Stitch Decelerator	Deployable Structures	Integrate into NASA or Commercial Systems	Assigned	Υ	High	Low
Self-Deploying Tent Array (SDTA)	Deployable Structures	License product	Patent Pending	N	Moderate	Low
CubeSat Solar Array	Deployable Structures	Leverage to get into small satellite development space	Assigned	N	Moderate	Moderate
Aero Software (MISL3, MISDL, STRLNCH)	Software	Sale Product –Sales are currently \$50K / year	Proprietary	N	Moderate	Low
Expert Systems Software	Software	Sale Product	Proprietary	N	Moderate	Low
Super Resolution Algorithm	Imagery	License product	Assigned	N	Moderate	Moderate



Sampling of AMA Product Developments



Actively Stabilized Drogue Refueling System (ASDRS) Development



Optically Stimulated Electron Emission (OSEE) Instrument



Green Propellant Tank under Cold Flow Test at NASA MSFC



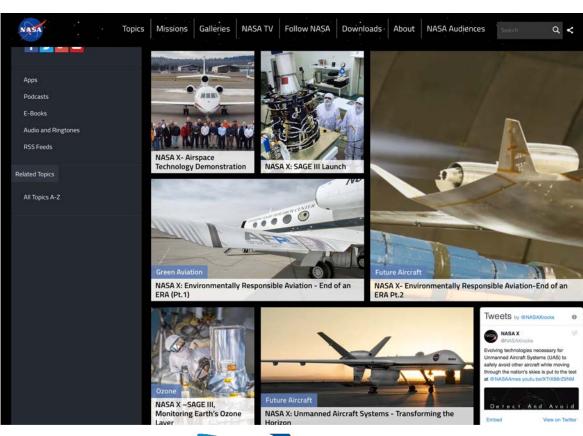
Telling the NASA Story



NASA X is a 30 minute Emmy Award winning television program or vodcast that tells a story to millions of viewers.

The NASA X team focuses on producing a high quality video product that will actually be seen by the public. We have built a strong distribution network including:

- The National Educational Telecommunications Association (NETA) and PBS Learning Media reaching a potential 170 million households
- Airing on DIRECTV reaching 27 million households
- Over 400 TV stations airing our program around the country
- Millions of downloads from the NASA portal
- Pages on iTunes, Hulu, YouTube, Vimeo and Twitter
- Airing on flights. We have direct ties with inflight entertainment systems for major airlines
- Airing on Hulu. Only high quality programs are selected for broadcast. In fact, our producers were the first to have a program on Hulu.com
- Broadcasted in the informal market at science centers and museums













Questions



