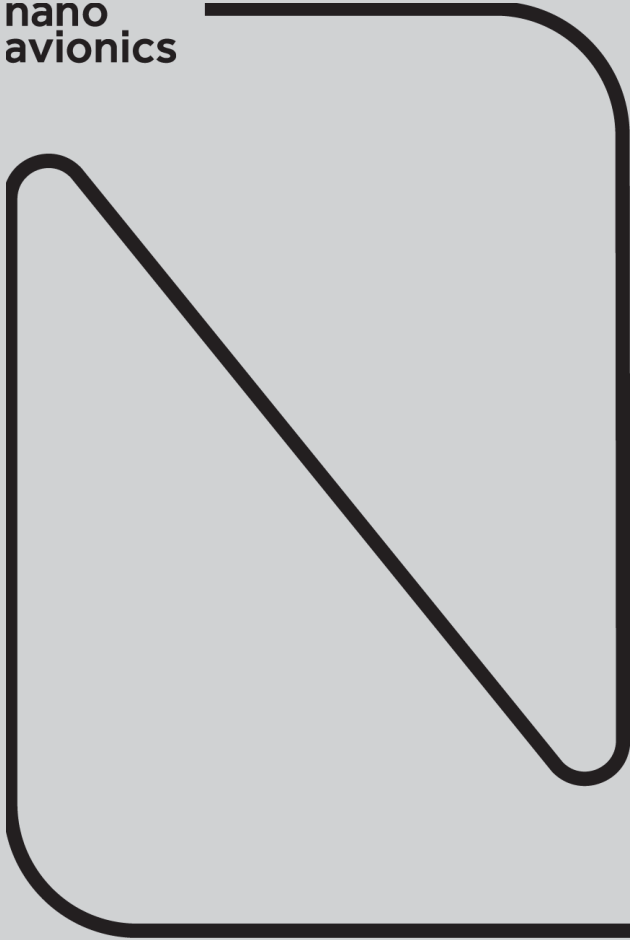


nano  
avionics



# NanoAvionics

[www.nanoavionics.com](http://www.nanoavionics.com)

Engineering the Future of Commercial Space

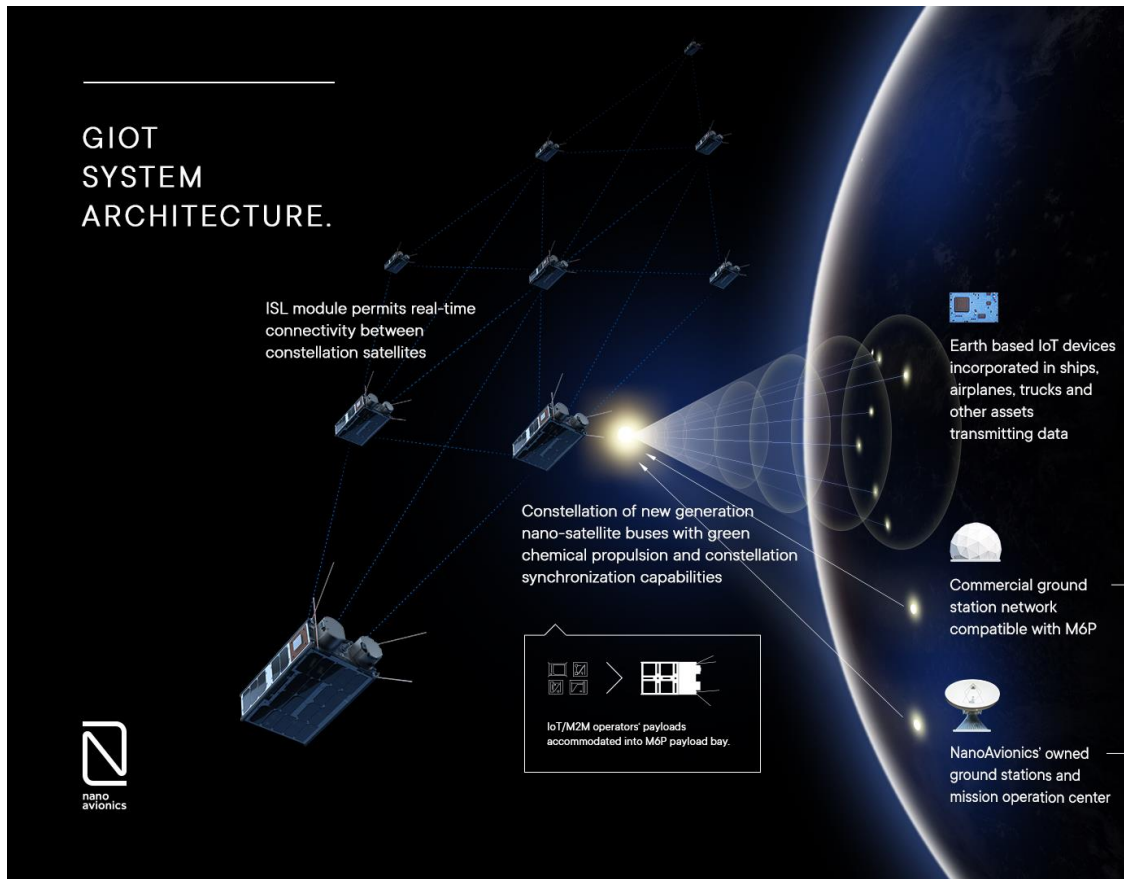
Brent Abbott, CEO NanoAvionics US Inc.

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602-284-7997

February 2020 – Small Satellite Symposium

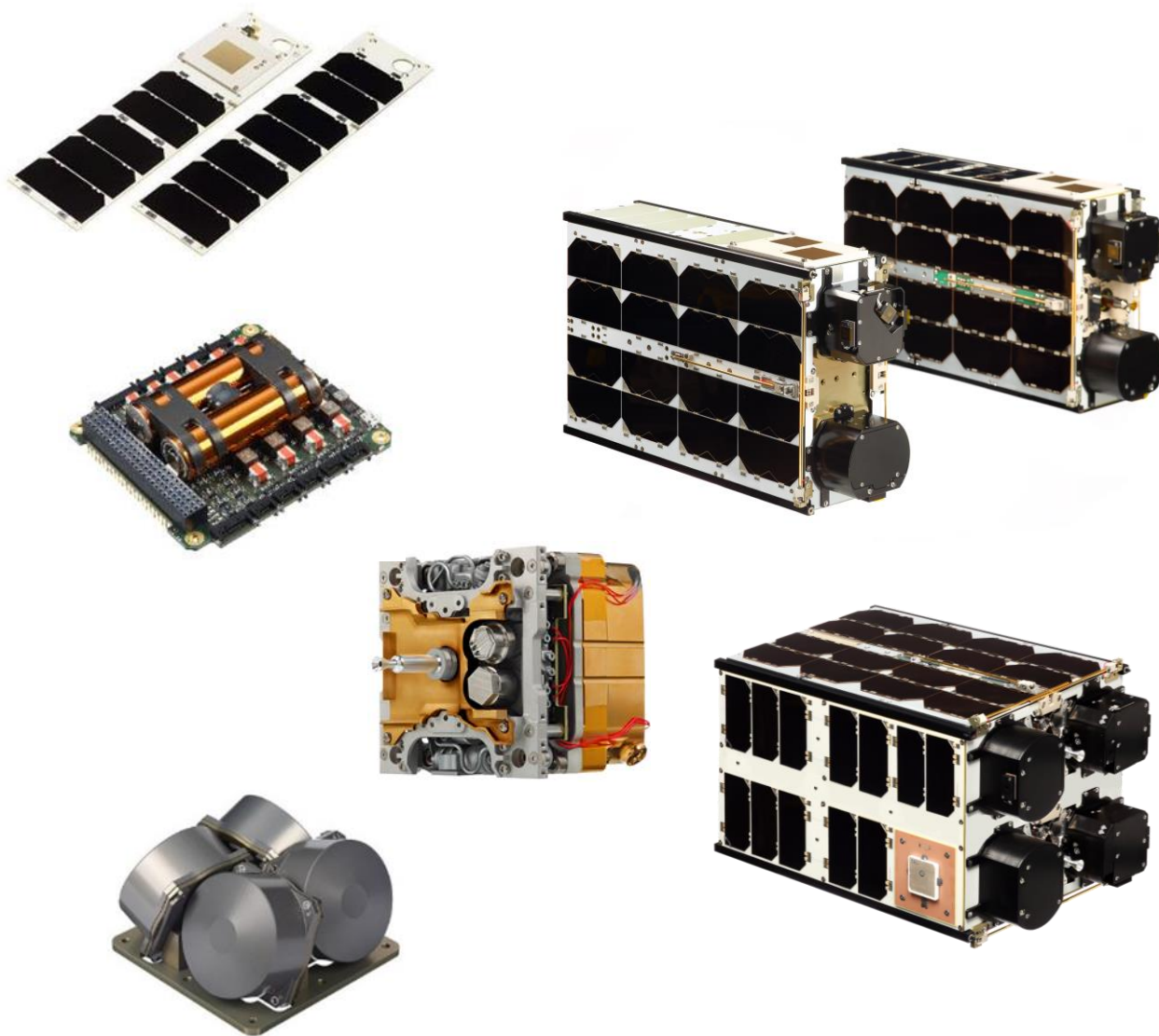
Providing Commodity/Low Cost access to space to the “Gold Rush” of new ideas for science, government and commercial missions that are enabled by the ever lowering of barrier to entry.



- **As the capabilities of smaller satellites grow simultaneously reducing launch cost in addition to new, lower costs launch provider entrants, existing space missions and new ideas are now being enabled.**

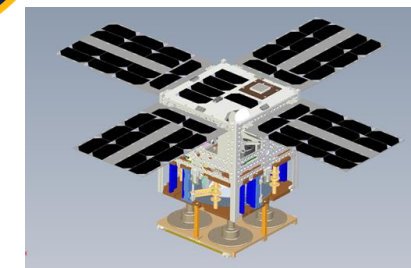


# NanoAvionics Approach



## Subsystems

- Standards followed:
  - ESA ECSS
  - IPC-A-610 class 3
  - NASA GEVS 7000
- Radiation tested:
  - 20 Krad TID
  - SEL/SEU: Proton Energy 184 MeV, flux 1.4E6 protons/cm<sup>2</sup>, total dose 1E10



NASA ACS3 Solar Sail Bus

## Buses

- Lowest cost, maximum payload volume, options in pointing, power, propulsion

## Dedicated Missions

- Flying customers payloads and operating their missions offloading a proven and commodity service reducing risk and schedule

## Hostings

- Lowering cost of access to space for demo by splitting mission costs



## Business

### Lithuanian Start

- Started company 5 years ago, now well established in Europe and Asia.

### US Expansion and Growth

- US facilities
- Columbia, Illinois facility to be finished near the end of the February
- Midland, Texas of large scale production
- US has just landed new NASA and commercial NewSpace contracts

### Overall

- Backlog and Revenues roughly trebled in 2019
- Trebling+ expected again in 2020

We are the “Shovels and Picks” company in this gold rush with the best lowest cost product and few competitors or risk compared to new space start ups or the 100+ launch companies with an early promising backlog



Columbia, Illinois  
(St. Louis area)



Midland, Texas  
(former XCOR facility)