

Space Engine Systems at the IAC 2023 in Baku

Mark your calendars, Space Engine Systems will be attending the IAC 2023 Show in Baku from October 2nd through the 6th.

EDMONTON, ALBERTA, CANADA, September 21, 2023 / EINPresswire.com/ -- Space Engine Systems is an aerospace and space engineering company working to become the lowest-cost trucking company to anywhere in space including the Lunar Mission. This is achieved by developing three fully reusable horizontal take-off and landing Mach 5 spaceplanes named the Hello series. Additionally, Space Engine Systems is developing several spin-off technologies including multi-fuel turbojet/turbo-ram jet engines and a lightweight cryogenic hydrogen heat exchanger. The DASS GNX turbo-ram jet engine powers all spaceplanes in the Hello series using airbreathing propulsion systems and can run on jet fuel, methane, and blends of up to 100% hydrogen.



SPACE ENGINE SYSTEMS
Goal – Lunar Mission

We are a trucking company to anywhere in space including the Lunar Mission

CORE PRODUCTS

Our Goal
To build a series of Mach 5 turbo-ram jet spaceplanes capable of delivering customer payloads to various orbits through a proprietary air-breathing turbo-ramjet engine - the DASS GNX. Ultimately, to remove barriers to hypersonic flight and make affordable space access a reality.

- Space Engine Systems is developing the Hello series of Mach 5 turbo-ram jet spaceplanes that are fully reusable, horizontal takeoff and landing, and capable of:
 - Point-to-Point
 - Hypersonic for defence
 - Suborbital
 - Payload delivery to
 - Low Earth Orbit (LEO)
 - Geosynchronous equatorial orbit (GEO)
 - Low lunar orbit and lunar surface
 - Trans-mars orbit

Hyperdome
Unmanned multi-fuel turbo-ramjet for Mach 5 test flights and defence

Hello-1X
Experimental technology demonstrator vehicle for Mach 5 flight testing (Piloted with unmanned option)
Fuels: Jet-A, 100% hydrogen

Hello-1
Mach 5 at 32,100 km [20,62 mi], 550 kg [1,200 lb] payload delivery to LEO via transfer vehicle (Piloted with unmanned option)
Fuels: Jet-A, 100% Hydrogen, Methane, RP1

Hello-2
Mach 5 at 32,100 km [20,62 mi], up to 5,500 kg [12,000 lb] payload to LEO and 760kg [1,700 lb] payload to lunar surface via transfer vehicle (Piloted with unmanned option)
Fuels: Jet-A, 100% Hydrogen, Methane, RP1

PRODUCTS FOR SPACE, AEROSPACE AND INDUSTRIAL APPLICATIONS

www.spaceenginesystems.com (780) 430-9383 info@spaceenginesystems.com

ANAB ISO 9001:2015 CERTIFIED COMPANY DNV ISO 14001:2015 CERTIFIED COMPANY

An AS 9100 D (Aerospace) certified company. Covered: Guide Program (CPI) registered.

SES Core Products



SPACE ENGINE SYSTEMS
Goal – Lunar Mission

SPIN-OFF PRODUCTS

Did you know that Space Engine Systems has several spinoff products? We design, manufacture, test, and install several products in the space, aerospace and industrial industries. Partner with us for a single stop solution to all your most difficult engineering challenges.

- Custom designed turbine engines for specific applications. Patent Pending in some areas
- Thermal Management for extreme heat including cooling systems for any application including your major computer systems for space, aerospace and industrial applications
- Consistent metallic joints. Automotive or industrial applications
- Cryogenic extremely light tanks for Liquid Hydrogen for automotive or other industries
- Cryogenic systems for Liquid Hydrogen.
- Turbo Pumps for cryogenic application
- Custom designed light and load tested gears and gearing systems for any application mainly for space and aerospace applications

Hydrodynamic thrust and radial bearings. High rpm, high thrust loading, extreme temperature and constrained space. Patented

Positive displacement pumps of gear or screw types. Patented. Gearing design with dry running up to 40 minutes for helicopters. Extremely low coefficient of friction

Most efficient Heat Exchanger for any application including using cryogenic medium. Remove in excess of 10 MW within 75 milliseconds. Additive manufactured up to 1500 mm x 1500 mm x 600

Turbine engine test cell (mobile). Custom Drone design using turbo ram jet

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SES Spin-Off Products

Mark your calendars, Space Engine Systems is attending the 2023 IAC Convention in Baku. At the IAC 2023 Convention from October 2nd to 6th, a scale model of the Hello-1 spaceplane will be displayed in booth #317. Meet with Space Engine Systems personnel at the event to learn how the Hello series of spaceplanes will disrupt the space and aerospace industries.

Space Engine Systems is currently developing Hello-1X, a piloted technology demonstrator vehicle with unmanned option capable of Mach 5 flight up to an altitude of 32 kilometers. Hello-1 can deliver 550 kilograms to LEO while Hello-2 can deliver 5,500 kilograms to LEO, 1,650 kilograms to lunar orbit, and 760 kilograms to the lunar surface. Payloads can be delivered point-

to-point across the earth by any of the Hello spaceplanes and can be delivered to various earth and lunar orbits, and the lunar surface via a transfer vehicle released from Hello-1 and Hello-2. All of Space Engine Systems' spaceplanes are piloted with an unmanned option.

We have operations in Edmonton Canada, Cornwall U.K., and are currently setting up operations in multiple locations in the U.S. To rapidly expand and continue our growth into these countries, Space Engine Systems is hiring highly dedicated business development personnel and aerospace, mechanical, and electrical engineers. Space Engine Systems Inc. applicants for our Edmonton operations must be Canadian citizens, applicants for Space Engine Systems Limited Cornwall U.K. must be British citizens, and for U.S. positions for Space Engine Systems USA Inc. applicants must be U.S. citizens. Please apply to careers@spaceenginesystems.com.

Space Engine Systems has aggressive and ambitious timelines. Subject to regulatory approvals in the U.S., we hope to launch our piloted Hello-1X demonstrator vehicle next year, says Pradeep Dass, President & CTO of Space Engine Systems.

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