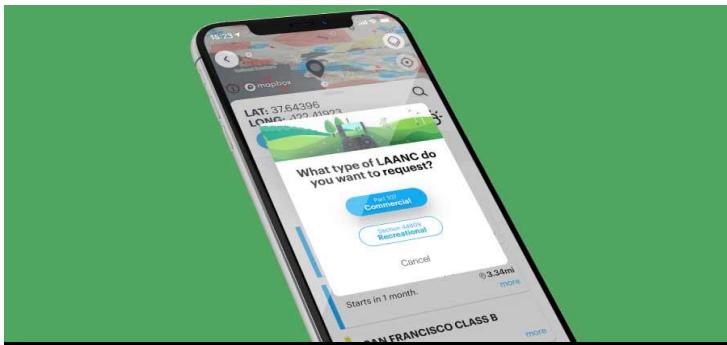




Decisive Point Portfolio Companies



Aloft



Aloft // aloft.ai

Airspace management and traffic control for unmanned aerial systems. Aloft currently manages +70% of all commercial drone flights for the FAA and provides the software backend for the FAA's flight authorization application.

ASYLON Robotic Perimeter Security



Asylon Robotics // asylonrobotics.com

Software & hardware technologies to make robotic systems truly autonomous – Asylon has the most advanced FAA waivers in the industry. Customers include FedEx, GXO, Nike, SixFlags, ADT and the Atlanta Falcons.

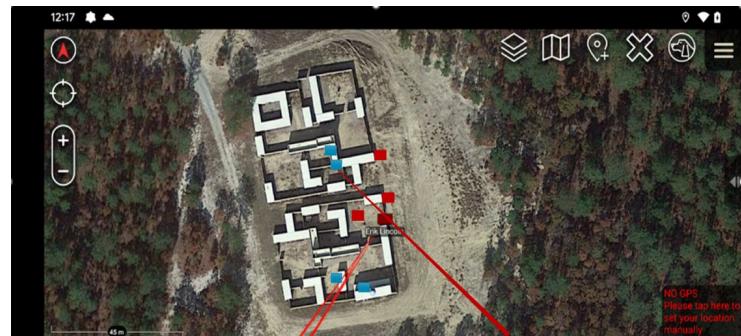
EpiSci



EpiSci // episci.com

EpiSci is building novel artificially intelligent autonomous systems for mission-critical applications. EpiSci's hybrid machine learning framework, Tactical AI, integrates Adaptive Autonomous Rule-based Learning (A2RL), Reinforcement Learning (RL), and Deep Learn

ARC



Armaments Research Company (ARC) // armaments.us

ARC designs ruggedized weapons sensors that are inserted into soldier platforms to respond to combat-incidents at the edge. The AI-enabled sensors communicate kinetic information, and have been adopted by major defense acquisition programs and Sig Sauer.

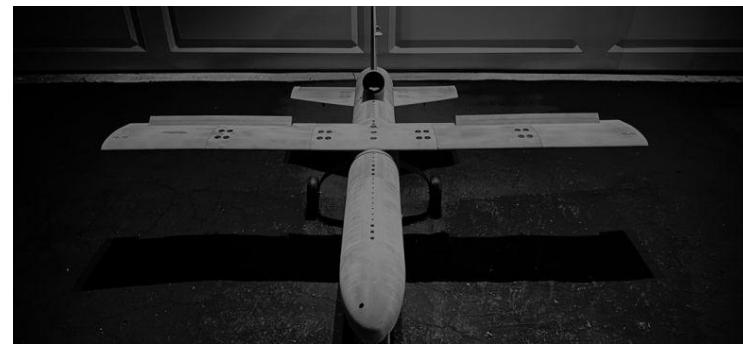
PISON



Pison // pisontechnology.com

Pison captures neuromuscular signals on the surface of the skin and combines them with proprietary machine learning algorithms to enable intuitive, productive, and hands-free gesture control of electronics and applications.

FIRESTORM



Firestorm // launchfirestorm.com

Firestorm is creating a new class of low-cost, vertically integrated, loitering munitions systems that outpace and outperform industry incumbents, delivering a critical capability for the modern hyper-enabled battlefield.



FlightWave



FlightWave // flightwave.aero

Complete UAS solution with swappable payloads, small logistic footprints, and extended range and endurance. Built by former SpaceX engineers. Patented tilt-rotor design allows for transition to fixed-wing flight.

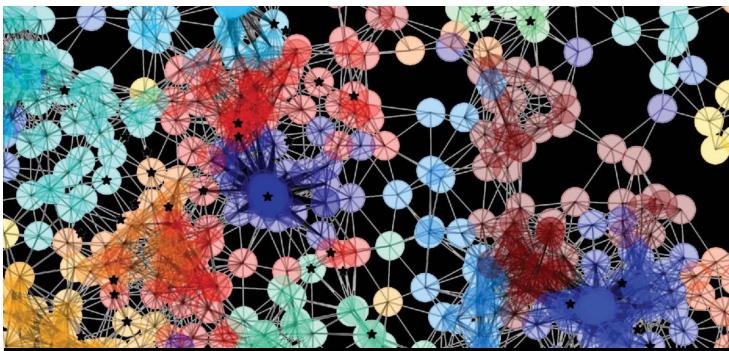
LIFT AIRCRAFT



Lift Aircraft // liftaircraft.com

Lightweight electric vertical take-off and landing (eVTOL) aircraft. One of three eVTOL platforms to receive airworthiness certificate from the US Air Force and on track to receive manned flight authorization.

MACRO-EYES



Macro-Eyes // macro-eyes.com

Supply chain network optimization to improve demand forecasting and predict human behavior. The company is executing multiple medical supply programs on behalf of the World Bank and Gates Foundation.

Foundation Alloy



Foundation Alloy // foundationalloy.com

Foundation Alloy has developed a new class of nanostructured alloys specifically engineered for 3D printing and sintering. These novel materials have superior mechanical properties, including specific strength, thermal stability, and damage resistance.

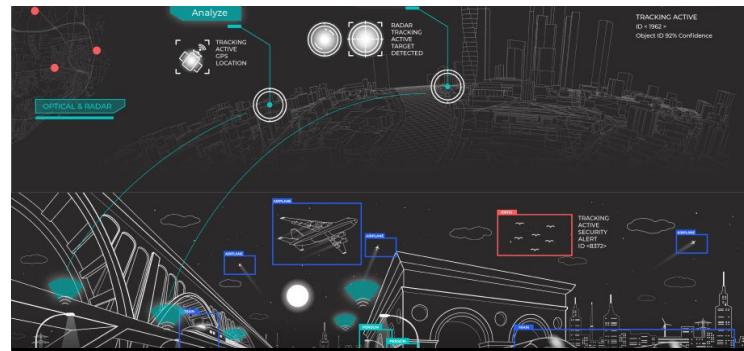
lynQ



lynQ // lynqme.com

lynQ is a decentralized, flexible and rapidly deployable network capable of transmitting data over miles in a manner that's uniquely difficult to detect or intercept.

MatrixSpace®

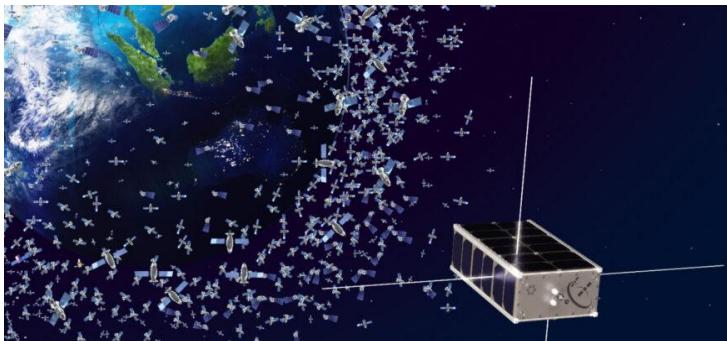


MatrixSpace // matrixspace.com

MatrixSpace is addressing the next generation of AI-enabled sensing so that objects can be identified and data collected in real-time – no cloud required. They are building the smallest networked radar system to provide new levels of integrated outdoor surveillance in 4D.



SCOUT



SCOUT Space // scout.space

SCOUT Space Inc. is making space transparent and safer by offering in-space observation data and services. Our SCOUT-Vision systems help SpaceCraft Observe and Understand Things around them: a new paradigm for space safety.



Aperion Labs // apeironlabs.com

Aperion Labs is reimagining ocean monitoring by developing technologies to reduce the cost of ocean sensing by orders of magnitude. Aperion Labs' gliders are being designed to be both mass-produced and deployed with an infrastructure-as-a-service model.



Regent Craft // regentcraft.com

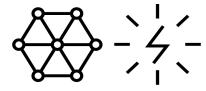
Regent Craft develops and manufactures all-electric, passenger-carrying vehicles to service coastal routes and littoral passages. Their Seaglider, is a wing-in-ground-effect craft that operates a few meters above the water's surface and combines the speed of an airplane with the low cost of a boat.

TRL11



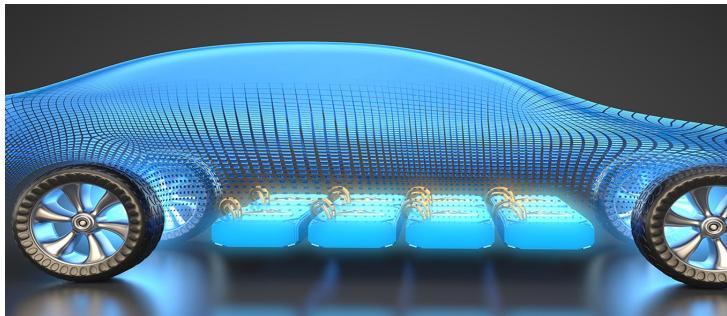
TRL 11 // trl11.com

TRL 11 enables development of On-Orbit Service, Assembly, and Manufacturing (OSAM), as well as satellite Rendezvous, Proximity Operations (RPO). TRL 11 accelerates the effective removal of space junk through Active Debris Removal (ADR)



Arch Systems // archsys.io

Arch Systems builds hardware and software connectors to extract detailed machine data and full transcripts from factory machines. This information is used to build digital twins of weapons systems or manufacturing operations, revolutionizing quality, cost, maintenance analyses.



GDI // gdinrg.com

GDI's patented silicon battery materials offer better performance over standard lithium-ion and emerging solid-state batteries. GDI batteries use the power of Silicon to achieve faster charging times, greater energy density and superior safety.

Lithos



Lithos // Stealth

Lithos, Inc is a critical materials exploration and production company. Critical materials is a broadly recognized term, yet has precious applicability for those involved within or around the field. Lithos is pushing towards getting a field test done for the sorbent approach.

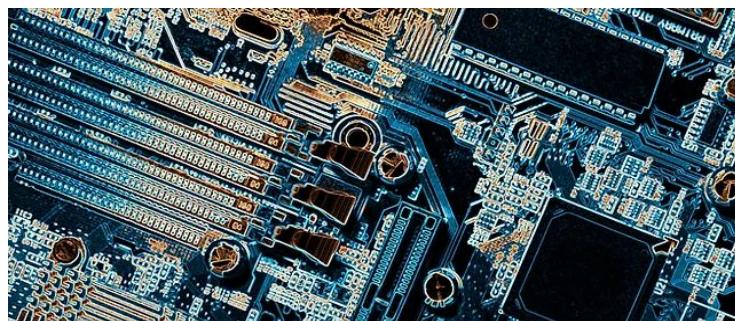
Distributed Spectrum



Distributed Spectrum // distributedspectrum.com

Distributed Spectrum has engineered a modular RF situational awareness platform to detect, classify, and localize RF transmitters across a variety of environments.

HAYLON TECHNOLOGIES



Haylon Technologies // haylontech.com

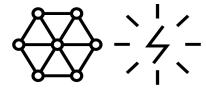
Haylon Technologies has developed a proprietary combination of hardware and software that enables highly-efficient dual-chemistry battery packs by intelligent switching between two kinds of battery cells to maximize overall performance.

RADIANT



Radiant Nuclear // radiantnuclear.co

Radiant is building portable, zero-emissions micro-nuclear reactors. Each unit delivers over 1 megawatt of electricity and can operate for up to 8 years, providing enough power to support over 1,000 homes per unit.



RISE Robotics // riserobotics.com

High-efficiency, fluid-free, electric alternative to hydraulic cylinders for use in vehicles, automation, and industrial systems. The fuel saving, belt-driven actuation solution uses 65-90% less power than hydraulic cylinders.

Simplesense



SimpleSense // simplesense.io

Simplesense integrates data and technologies to help operators and responders get the information they need to react faster in emergency incidents.

VERTIQ



Vertiq // Vertiq.co

Vertiq offers servomotor propulsion solutions consisting of a lightweight, tightly integrated motor and ESC with an embedded position sensor. With position sensing, motor calibration, control software vehicles experience significant performance advantage.

sentenai



Sentenai // sentenai.com

Sentenai delivers autonomous data engineering solutions for real-time decision making in dynamic, data-driven environments. Sentenai's data fusion platform unifies data from disparate operational sources.

TERADAR



TeraDAR // teradar.com

TeraDAR has developed the first ever terahertz high-resolution (+500 GHz) imaging radar on a chip, enabling low-cost, advanced perception capabilities and secure terahertz communication signal transmission.

Maybell



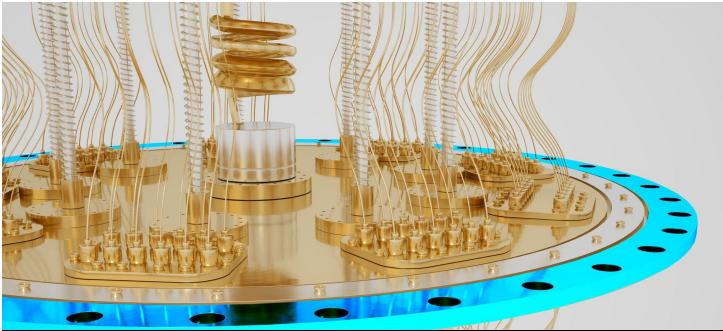
Maybell Quantum // maybellquantum.com

Maybell Quantum has introduced a reliable and modular dilution refrigeration system for quantum computing applications. Manufactured domestically, their solution is a critical component for quantum sciences and technologies.





ATLANTIC QUANTUM



Atlantic Quantum // atlantic-quantum.com

Build scalable quantum computers to tackle the world's hardest computational challenges through eliminating the barriers to quantum computing including large error rates, restricted scalability and industry hype.

OPTIVOLT



Optivolt // optivolt.com

Optivolt's patented electronics architecture harvests power from both shaded and unshaded areas of a solar panel. Their shade tolerance technology is battle tested by U.S. Homeland Security and Ukrainian front-line units to reliably provide mission-critical power.



Add

SEQUENCE	THREAT LEVEL
Sequence 13	MATCH
Sequence 12	NON-ANNOTATED
Sequence 11	NON-ANNOTATED
Sequence 10	NON-CONCERNING
Sequence 9	UNIDENTIFIED
Sequence 8	NON-THREAT
Sequence 7	NON-THREAT
Sequence 6	NON-THREAT

Upload Sequence

DE

Virus enters the endosomes of the host cell proteolysed at GP1 by two cysteine proteases, CTSL or cathepsin B and CTSL. Cathepsin L removes the glycan cap and allows GP1 binding to the host entry receptor. GP1, NPC1-binding, Ca(2+) and acidic pH induce a conformational change of GP2, which unmasks its fusion peptide and permit membranes fusion (By definition).

GP2

Acid is a class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, Acid undergoes a series of conformational changes to assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure is required to induce the fusion of the viral and target cell membranes. Responsible for penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus with the endosomal membrane. Loss in endosomes induces an irreversible conformational change in GP2, releasing the fusion hydrophobic peptide.

Mediates viral invasion into a host cell

VIRULENCE FACTORS: viral counter signaling | viral adhesion | viral invasion

ONTOLOGY: suppression by virus of host innate immune response

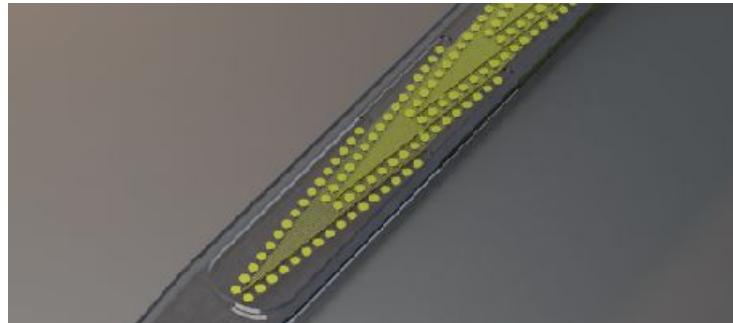
entry receptor-mediated virion attachment to host cell

extracellular region | fusion of virus membrane with host endosome membrane

Acid Bio // acid.bio

Acid empowers the synthetic biology community with a platform for identifying pathogenic and toxic genes.

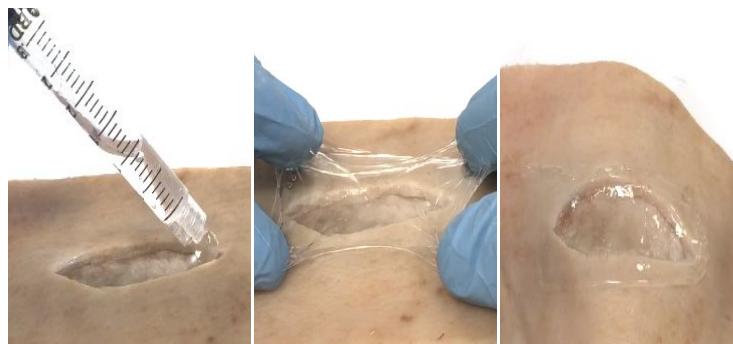
axoft



Axoft // axoft.us

Axoft is developing soft, scalable, and stable next-generation neural probes, realizing subcellular resolution, ultra-high bandwidth, minimally invasive, and long-term stable brain-machine interface to seamlessly connect the brain to electronics.

GelSana



Gelsana // gelsanatherapeutics.com

Gelsana is developing novel wound healing hydrogels that repair tissues faster than any other competing product on the market while also reducing the risk of infection.



APERIUM BIO



Aperiam Bio // aperiambio.com

Aperiam Bio, Inc. has patented a deep learning algorithm that leverages computer vision and is trained on amino acid-structure relationships across the entirety of the observed proteome.

EDGE IMPULSE



Edge Impulse // edgeimpulse.com

Radiant is building portable, zero-emissions micro-nuclear reactors. Each unit delivers over 1 megawatt of electricity and can operate for up to 8 years, providing enough power to support over 1,000 homes per unit.

glypic//bio

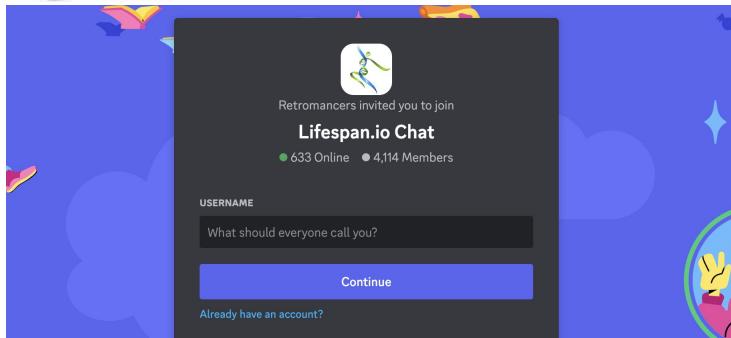


Glypic Biotechnologies // glypic.bio

Glypic Biotechnologies is improving protein sequencing by adding a sequencing step where the target amino acid is detached and then tethered nearby using a novel molecule called Click.



Lifespan.io



Lifespan // Lifespan.io

Pioneering devices that use a combination of audio-visual machine learning and biofeedback to induce patient-specific gamma entrainment for the treatment of Alzheimer's Disease.

Wayfinder



Wayfinder // wayfinderbio.com

Wayfinder Biosciences is engineering the future of smart biotechnology, manufacturing aptamer-based sensors that can rapidly detect and neutralize threats.

NEURABLE The mind. Unlocked.



Neurable // neurable.com

Neurable builds full-stack neurotechnology tools that interpret human intent, measure emotion, monitor disease progression, and provide control of the virtual world

Resonant Link

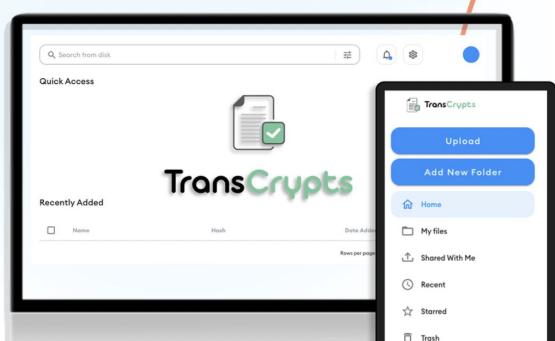


Resonant Link // Resonant

Resonant Link's MSRS platform shatters the barriers of conventional wireless power with 5x higher performance for faster charging, easier alignment, and higher efficiency. Resonant Link's wireless power is within FDA temperature limits to eliminate drivelines and battery replacements.



TransCrypts



Transcrypts // transcrypts.com

Transcrypts are developing a blockchain ledger to serve as an interoperability layer between EHR systems and prescription drug monitoring systems.

U-CHU Biosensors Inc.



UCHU DBA Lura Health // lurahealth.com

UCHU Biosensors is developing an advanced intraoral sensor for dental caries preventative care. The product incorporates an IoT system to provide multi factor longitudinal data.



Wayfinder BIOSCIENCES



Wayfinder // wayfinderbio.com

Wayfinder Biosciences is engineering the future of smart biotechnology, manufacturing aptamer-based sensors that can rapidly detect and neutralize threats.