10 STARTUPS THAT'LL CHANGE THE SELF DRIVING CARS INDUSTRY FOR THE BETTER

ABOUT

Self-driving technology sounds intimidating, but it's no surprise that self-driving cars are a hot topic in the automotive arena. Self-driving systems can be ethically necessary if there are fewer accidents than a human driver. Although we have been discussing self-driving systems for some time now but there are some significant developments made by the organizations which are discussed below.

Here are the 10 Startups that are working relentlessly to make self-driving technology viable:

NEURAL PROPULSION SYSTEMS: - This is a California-based startup working with a vision to achieve zero road accidents. Originating in 2017 NPS offered the world's first widely integrated all-in-one multi- sensor system for level 4/5 autonomy for mass implementation using cost-effective models. Recently NPS has launched a product which is a package of sensors that help self-driving cars to navigate.

NPS 500 is the safest and most reliable autonomous vehicle platform that allows the industry to achieve a vision without accidents. It additionally offers another class of radar innovation with 10x better discovery unwavering quality, concurrent 360° and multiband FoV, 70x better than other radar signal obstruction. Incorporated first-ever AI Fusion technology that "sees around the corner".

PLAYMENT- This time an Indian startup based in Bangalore, Karnataka which was established in 2015 is leading the way forward towards developing self-driving vehicles. Helps machine learning engineers create high-quality real-world datasets to train and validate machine learning models. Basically, Playment offers various solutions for autonomous vehicles which include object detection, video object tracking, object depth psychology, vehicle lane detection, irregular shape detection, pan-optic demarcation, point-cloud severance, interconnecting 2D-3D objects, and ADAS.
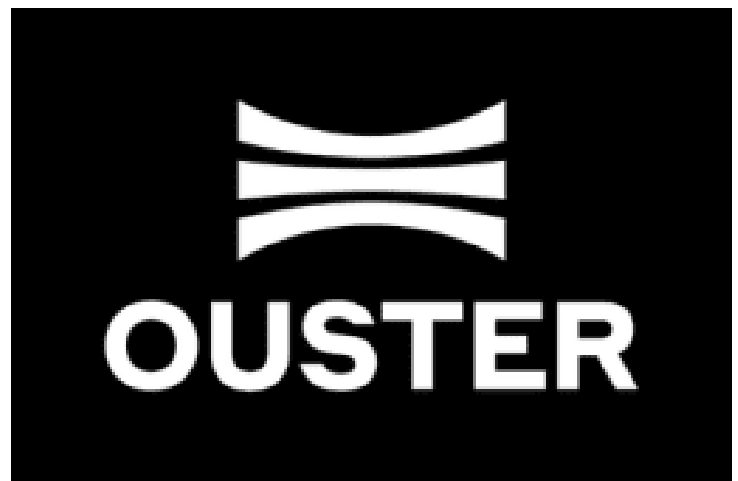
OUSTER INC- This is an American-based startup that is headquartered in California and established in 2015. Ouster specializes in building high-resolution 3D lidar sensors for use in self-driving vehicles. This organization has completely transformed an analog device with thousands of components into an amazing digital device in a very short period of time. Ouster's protected computerized lidar design offers an unrivaled blend of execution, unwavering quality, and cost.

QUIXOTE- This is an Indian automotive tech startup based in Ahmedabad, Gujarat, and started its journey to improvise self-driving vehicles in 2019. Quixote is engaged in developing high-performance and reliable connectivity for autonomous vehicles.The main aim is to reduce traffic congestion and increase road safety with the incorporation of autonomous technology. The organization serves two products namely "Scouto" for individuals and "Wheel Intel'' for businesses. Scouto is a smart device equipped with Artificial Intelligence. Simply connect it to your car and you can easily turn any car into a smart car. This device enables users to access the complete vehicle health report, smart and timely alerts during an emergency, and detailed trip reports. Wheel Intel serves as a supplier of connected car systems to automakers, the insurance industry, and fleet owners.

HI-TECH ROBOTIC SYSTEMZ: This is an Indian industrial automation organization based out in Gurgaon, Haryana, and founded in 2004. Focuses on developing next-generation mobility products with autonomous technology, driver assistance, and the latest mobile robots to carry people and materials. The organization has developed three products namely Novus-Drive, Novus-Aware, and Novus-Pilot.

Now, Novus-Drive is India's first self-driving shuttle. This is an advanced autonomous navigation solution for partial urban environments that uses data merging, deep learning algorithms. Novus-Aware is the most powerful driver attention and behavior monitoring system on the market. It incorporates advanced machine learning and perception techniques for safer driving. And finally, Novus-Pilot is a vehicle external environmental monitoring system that uses deep learning and computer vision to provide vulnerable user alerts.

GOGGO NETWORK: When it comes to self-driving technology, Germans are leaders in the autonomous mobility sector. Goggo is a German startup based out in Berlin and founded in the year 2018. The Goggo Network is dealing with the designing and lawful structure of autonomous mobility networks in Europe for quite a long time to come. They are striving to lead the autonomous driving revolution to address regular commute challenges. By configuring an autonomous mobility network, they provide various autonomous, electrical, and shared mobility solutions. Its features include security, traffic reduction, and interdisciplinary cooperation.

BLICKFELD: This is a German startup founded in 2017 and based in Munich, Germany. Blickfeld is a leading provider of LiDAR technology for autonomous mobile and IoT applications. The organization asserts that LiDAR sensors help self-driving vehicles perform precise perceptions and give order, area, and recognition of their environmental factors. Their automobile products include Vision-Mini and Vision-Plus. The Vision-Mini is a mid-level 3D LiDAR that provides a wide field of view with excellent compactness. It can be customized to allow a seamless integration into multiple installation positions such as headlights, tail lights, or exterior mirrors. Now, Vision-Plus is a long-range 3D LiDAR that provides powerful remote tracking. LiDAR transmission helps take ADAS and AD to the next level. Due to the small size and adaptability of the assembly, the sensor can be fully integrated into the vehicle

einride

EINRIDE: A leading electric autonomous transport vehicle startup based out in Stockholm, Sweden, and founded in the year 2016. The organization specializes in freight mobility solutions based on electric and autonomous vehicles, leading the transition to sustainable transport. Einride is the first company in the world to deploy fully electric and fully autonomous transport vehicles for public road transport. With the ability to monitor and operate remotely, operators can monitor and control the pod as needed without the need for a human driver on board. Technology doesn't get much more exciting than this. The Next Gen pods are designed for a wide range of uses from AET 1 to 4. AET 1 and 2 are available now and can be ordered and installed in early 2021. AET 3 and 4 are available on the reservation and will be delivered to customers in 2022. -2023.

NAVENTIK

NAVENTIK: This is also a German startup based out in Chemnitz (Germany) and founded in the year 2016. Naventik holds a great team of satellite navigation & sensor fusion experts. The organization aims to develop high-quality software for complete positioning solutions for self-driven vehicles. It offers a route engine for auto confinement assignments, named "PATHFINDER". It contains two software components named Pathfinder GNSS and Pathfinder Fusion. Their senso and service-independent positioning motors allow original equipment manufacturers (OEMs) to convert various positioning systems into ready-to-use, freely configurable components for significant unit cost savings.