Autonomous Vehicles in Transportation, Part 3: Industry Players

运输中的自主车辆，第3部分：产业参与者

If you have ever rented the movie Tucker, you would know why there were only a handful of major automobile corporations in the 1950s to 1970s. Prior to that, the trend for car manufacturing was an open playing field with companies such as LaSalle, Willys Overland, Packard, and others. The days of emerging car companies have returned due mostly to innovation with companies such as Tesla and Bandu. However this time, the field is different. Its based on intelligence in electronics. It involves data-centric companies like Apple and Google. Also involved are those such as Nvidia18 which According to Reuters, 320 companies involved in driverless cars are using Nvidia Drive to enable automakers, truck makers and startups to accelerate the production of automated and autonomous vehicles.

如果你曾经租来的电影希尔斯，你就会知道为什么有1950的1970美国之前，只有少数几个大的汽车企业，汽车制造业的发展趋势是一个开放的竞争环境，公司如LaSalle，威利的欧弗兰、帕卡德和其他人。新兴汽车企业的日子又主要是由于创新公司如特斯拉和Bandu。然而这一次，这个领域是不同的。它基于智能电子。它涉及以数据为中心的公司，如苹果和谷歌。还有那些如nvidia18这据路透社，320家公司涉及无人驾驶汽车使用的是NVIDIA的驱动，使汽车制造商，汽车制造商和初创企业加快自动化和自主车的生产。

The pursuit of the autonomous vehicle is also driving the stock market19.

自主车辆的追求也推动股票市场。

Many of these efforts have generated speculative articles as to secret operations such as Apples rumored purchase of an abandoned airfield19 ;however, there are reports that Apple is scaling back to a role of intelligence versus creating a vehicle22. Google is also involved in a facility with Waymo where a fake city was built for testing vehicles20 at the former Castle Air Force Base 100 miles east of Silicon Valley.

许多这样的努力产生了一些投机的文章，比如苹果公司的传言说收购了一个被遗弃的苹果公司，但是，有报道说苹果正在缩减情报的作用，而不是创造一个新产品。谷歌也参与了Waymo一个虚假的城市设施是专为测试vehicles20在东方硅谷前堡空军基地100英里。

Along with the newbies are standard industry names21 such as GM, Mercedes, Honda, Renault, Nissan, and others.

随着行业标准names21新人如通用，奔驰，本田，雷诺，日产，和其他人。

Software simulators are being used, in addition to actual test facilities. While the fake city22 is impressive, Waymo has still clocked millions of more miles in computerized simulations, where thousands of virtual cars drive about 8 million miles a day, perfecting the software that gets uploaded onto the real cars. The simulation program, called Carcraft, includes models of Austin, Mountain View, and Phoenix. This leads to more and more employment in the software and virtualization fields; areas that analog engineers might have to consider as demand exceeds supply. Analog opportunities will exist as technologies like LIDAR create a need for optical electronic-based ICs.

除了实际的测试设备外，还正在使用软件模拟器。而假city22令人印象深刻的是，Waymo还记录了更多英里数以百万计的计算机模拟，在虚拟汽车千开车大约800万英里一天，完善被上传到真正的汽车软件。仿真程序，称为carcraft，包括奥斯丁，芒廷维尤，和菲尼克斯的模式。这导致在软件和虚拟化领域的越来越多的就业；区域模拟工程师可能认为供不应求。模拟机会将存在，因为像激光雷达这样的技术创造了对基于光学的集成电路的需求。

As the autonomous vehicle craze accelerates, it remains to be seen who the players are that will be left in the end. Perhaps one things for certain, the first major pile up caused by these vehicles will most likely determine who is no longer in the field.

随着自主汽车热潮的加速，最终将剩下的是哪些球员。也许一件事是一定的，第一个主要的堆积造成这些车辆将最有可能决定谁是不在现场。

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