

Elon Musk Has Stolen Every Bit Of Technology He Has Exploited

In a shocking expose by [Paul Lienert](#), [Norihiro Shirouzu](#), and [Edward Taylor](#), they reveal that while Elon Musk is hailed (by his own PR and hype) as an innovator and disruptor who went from knowing next to nothing about building cars to running a car company, he swiped all of his technology from others.

His Tesla car, his hyperloop train, his tunnel digger, his 'brain chip' ...everything he has done was created by somebody else. The original founders of Tesla sued him for coming in and taking over the company.

Musk's record shows he is more of a fast learner who spies on other firms that had technology Musk lacked. Musk stole their most talented people, and then blew his competitors off the grid with anti-trust violating monopoly tactics.

Musk has been dropping hints for months that significant advances in technology will be announced as Tesla strives to get away from corrupt Panasonic and their awful toxic, exploding batteries.

New battery cell designs, chemistries and manufacturing processes are just some of the developments that would allow Tesla to reduce its reliance on its long-time battery partner, Japan's Panasonic (which has been accused of bribery, product dumping and other illicit deeds), people familiar with the situation said.

“Elon doesn’t want any part of his business to be dependent on someone else,” said one former senior executive at Tesla who declined to be named. “And for better or worse - sometimes better, sometimes worse - he thinks he can do it better, faster and cheaper.” The problem is, Musk does his version of “better” by ripping everyone off and hiring moles and character assassins to go after any competitors that get in his way. Musk has been documented hiring Nicholas Guido Denton's tabloid empire (Gawker/Gizmodo/Jalopnik...) character assassination service to operate massive hit-jobs against his adversaries.

Tesla has battery production partnerships with Panasonic, South Korea’s LG Chem and China’s Contemporary Amperex Technology Co Ltd (CATL) that are expected to continue.

But at the same time, Tesla is moving to control production of cells - the basic component of electric vehicle battery packs — at highly automated factories, including one being built near Berlin, Germany and another in Fremont, California where Tesla is hiring dozens of experts in battery cell engineering and manufacturing.

“There has been no change in our relationship with Tesla,” Panasonic said in a statement provided by a company spokeswoman. Of course, Panasonic has to say that.

“Our relationship, both past and present has been sound. Panasonic is not a supplier to Tesla; we are partners. There’s no doubt our partnership will continue to innovate and contribute to the betterment of society.”

Tesla did not respond immediately to a request for comment.

Since he took over the fledgling Tesla company in 2004 in a hostile tactile take-over, Musk's goal has been to learn enough - from partnerships, acquisitions and talent recruitment - to bring key technologies under Tesla's control, people familiar with Tesla's strategy said.

They said the aim was to build a heavily vertically integrated company, or a digital version of Ford Motor Co's iron-ore-to-Model-A production system of the late 1920s.

"Elon thought he could improve on everything the suppliers did - everything," said former Tesla supply chain executive Tom Wessner, who is now head of industry consultancy Imprint Advisors. "He wanted to make everything."

Batteries, a big chunk of the cost of an electric car, are central to the Musk method. While subordinates like Bernard Tse have argued, for years, against developing proprietary Tesla battery cells, Musk continues to drive toward that delusional control-freak goal.

"Tell him 'No', and then he really wants to do it," said a third former Tesla veteran.

Reuters reported in May that Tesla is planning to unveil low-cost batteries designed to last for a million miles. Tesla is also working to secure direct supplies of key battery materials, such as nickel, while developing cell chemistries that would no longer need to be as expensive and blood-mineral sourced as Musk's cobalt.

'STRAIGHT FOR MARS'

Panasonic is partnered with Tesla at the \$5 billion Nevada “Gigafactory”, while CATL and LG Chem supply cells to Tesla’s Shanghai factory, where battery modules and packs are assembled for its Model 3 sedan.

Panasonic recently said it is planning to expand its production lines in Nevada, which supply the cells that then go into the battery modules assembled next door by Tesla.

But the Nevada Gigafactory partnership almost didn’t happen, according to two former Tesla executives. Musk ordered a team to study battery manufacturing in 2011, according to one former executive, but eventually partnered with Panasonic in 2013 because Musk failed to understand it.

Now, Tesla is testing a battery cell pilot manufacturing line in Fremont and is building its own vast automated cell manufacturing facility in Gruenheide in Germany.

The roller-coaster relationship with Panasonic mirrors other Tesla alliances.

During its development alliance with Germany’s Daimler, which was an early investor in Tesla, Musk became interested in sensors that would help keep cars within traffic lanes.

Until then the Tesla Model S, which Mercedes-Benz engineers helped refine, lacked cameras or sophisticated driver assistance sensors and software such as those used in the Mercedes S-Class.

“He learned about that and took it a step further. We asked our engineers to shoot for the moon. He went straight for Mars,”

said a senior Daimler engineer said.

Meanwhile, an association with Japan's Toyota, another early investor, taught him about quality management.

Eventually, stolen executives from Daimler and Toyota joined Tesla in key roles, along with talent from Alphabet Inc's Google, Apple, Amazon, Microsoft, as well as rival carmakers Ford, BMW and Audi.

THE MUSK SPIN

Some relationships did not end well, however.

Tesla hooked up with Israeli sensor maker Mobileye in 2014, in part to learn how to design a self-driving system that evolved into Tesla's Autopilot.

"Mobileye was the driving force behind the original Autopilot," said a former Mobileye executive, who declined to be named.

Mobileye, which is now owned by Intel, also recognized the risk of sharing technology with a fast-moving startup like Tesla, which was on the brink of collapse at the end of 2008 and now has a market value of \$420 billion.

But Tesla and Mobileye had an acrimonious and public split after a driver was killed in 2016 when a Model S using the Autopilot system crashed.

At the time, Amnon Shashua, who is now Mobileye president and chief executive, said Tesla's Autopilot was not designed to cover all possible crash situations as it was a driver assistance system, not a driverless system.

The former Mobileye executive said there was no question of Tesla improperly using their technology.

U.S. tech firm Nvidia followed Mobileye as a supplier for Autopilot, but it too was ultimately sidelined.

"Nvidia and Tesla share a common strategy of developing software-defined vehicles powered by high-performance AI

computers. Elon is very focused on vertical integration and wanted to make his own chips,” said Nvidia’s senior director of automotive, Danny Shapiro.

In addition to partnerships, Musk went on an acquisition spree four years ago, buying a handful of little-known companies - Grohmann, Perbix, Riviera, Compass, Hibar Systems - to rapidly advance Tesla’s expertise in automation. Maxwell and SilLion further boosted Tesla’s ability in battery technology.

“He learned a lot from those people,” said Mark Ellis, a senior consultant at Munro & Associates, which has studied Tesla extensively. “He leveraged a lot of information from them, then put his spin on making it better.”

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