

DTM Champion Bruno Spengler Joins Arnold NextG as Development Driver and Brand Ambassador

Pfronstetten-Aichelau, 3 December 2024 - Arnold NextG, a pioneer in the development of fully autonomous vehicle technologies, is strengthening its team with a prominent new addition: Bruno Spengler (41). The 2012 DTM Champion and multiple DTM runner-up will contribute his many years of motorsport experience to the development of the groundbreaking steer-by-wire technology. In addition to his role as brand ambassador, Spengler will work as a development driver on one of the biggest technological revolutions in automotive engineering: the transition from conventional steering systems to a fully electronic steering system based on the steer-by-wire principle, which is regarded as a key technology for Level 5 autonomous driving.



Kevin Arnold, left, and DTM-Champion Bruno Spengler will work together in the future and sealed the cooperation at the Arnold NextG headquarters in Pfronstetten Aichelau Photo: Arnold NextG

But what exactly happens when a motorsport professional like Bruno Spengler tests the limits of new steering technologies? The Nürburgring, one of the most demanding racetracks in the world, serves not only as a test track but also as a high-tech data laboratory. When Spengler drives an Arnold NextG technology carrier into the infamous Goodyear bend, brakes from over 250 km/h to under 70 km/h, turns precisely and stabilises the vehicle in the Schumacher-S turn with a fine foot on the accelerator, he is not alone: invisible 'spies' - sensors - accompany his every move.

These sensors are high-precision measuring devices that record over 200 parameters in real time - including steering angle, lateral acceleration, brake pressure, speed and accelerator pedal position. The collected data is transmitted to Arnold NextG's central data pool, where it serves as the basis for further development of steer-by-wire technology.

Steer-by-wire: a milestone in vehicle control

Since the invention of the automobile by Carl Benz in 1886, the steering column has been a central component of every vehicle. Arnold NextG breaks with this principle and favours its innovative steer-by-wire technology. Steer-by-wire technology replaces the mechanical connection between the steering wheel and the wheels with full digital control - via a single cable. This offers a number of key benefits:

- New interior concepts: Interiors can be redesigned without a fixed steering column.
- Greater safety, flexibility and precision: Faster reactions, for example by parameterising the steering angle or eliminating mechanical weak points such as wear.
- Basis for autonomous driving: Steer-by-wire is essential for Level 5 autonomy, where human intervention is no longer required.

“Our steer-by-wire technology is truly revolutionary,” says Kevin Arnold (24), founder and CEO of Arnold NextG. “With this innovation, we are breaking a 138-year-old mechanical dependency and paving the way for fully autonomous mobility. Bruno Spengler's experience will help us bring this technology to market for the entire automotive industry.”

Bruno Spengler: From the racetrack to the mobility revolution

For Spengler, this balancing act between man and machine is a new challenge: “The interplay between precision and control is just as crucial here as it is in racing. But now it's not just about finding the fastest way to the finish line, it's about a technology that will revolutionise mobility in the future.”

With Bruno Spengler on board, the company has over 20 years of motorsport experience and therefore the perfect expertise for accelerated and targeted development. “Working at Arnold NextG gives me the opportunity to take my passion for technology and innovation to a new level,” says Spengler. “Steer-by-wire is the key to rethinking mobility.”

With this seasoned professional, Arnold NextG is sending a clear signal: motorsport experience meets technological innovation to make the vision of autonomous driving a reality. In addition to his technical role, Spengler will act as a brand ambassador for Arnold NextG, representing the company's vision at international trade shows and conferences.

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From now on, Bruno Spengler will be involved in the practical development of the multi-redundant NX NextMotion central control unit, testing and further developing it on the racetrack and on the road together with the steering experts from Arnold NextG. Photo: Arnold NextG



Bruno Spengler was able to get an impression of the maturity of the steer-by-wire application during the first runs on the test track in Pfronstetten-Aichelau. Photo: Arnold NextG



The multiple-redundant NX NextMotion central control unit enables a fail-operational and individual implementation, independent of the vehicle platform, and is unique worldwide. Photo: Arnold NextG

About Arnold NextG:

Arnold NextG implements the safety-by-wire® technology of tomorrow: the multi-redundant central control unit NX NextMotion enables a fail-safe and individual implementation, independent of the vehicle platform and unique in the world. The system can be used to implement autonomous vehicle concepts safely and in accordance with the latest hardware, software and safety standards, as well as remote control, teleoperation or platooning solutions. As an independent pre-developer, incubator and system supplier, Arnold NextG takes care of planning and implementation - from vision to road approval. With the road approval of NX NextMotion, we are setting the global drive-by-wire standard. www.arnoldnextg.com

For further information

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