Nexteer AUTOMOTIVE

MotionIQ™

CUTTING-EDGE SUITE: *INTELLIGENT MOTION CONTROL* SOFTWARE SOLUTIONS

Shaping the future of the software-defined chassis

Nexteer's MotionIQ™ software suite streamlines 'by-wire' chassis control, development and vehicle health-monitoring workflows into a single suite, delivering significant cost and time savings for OEMs across the automotive, off-road, commercial vehicle and other adjacent mobility sectors.

We're not just CREATING intelligent software solutions - we're rethinking how we DELIVER. Our agile, flexible approach allows us to quickly adapt to customers' software strategies, ensuring seamless collaboration – and tailored solutions that align with unique development goals.

MotionIQ/Control™
ELEVATE PERFORMANCE. ENHANCE SAFETY.

Advanced vehicle dynamics functions transform safety, performance & driving comfort through intelligent motion control software

SOLUTIONS: Steer-by-Brake, Quiet Wheel™ Steering, Hands-Off Detection, Road Surface Detection

- **Revolutionizes "behind-the-wheel" experiences:** Delivers enhanced performance, safety & comfort
- **Brand differentiation:** Enables OEMs to deliver tailored driving experiences that excite consumers

- **Hardware-agnostic for seamless integration:** Enables OTA updates & meets unique hardware requirements (ECUs, actuators, domain control units, high-performance computers, etc.)
- **Award-winning software solutions:** Many solutions are already deployed in vehicles on the road through Nexteer's EPS programs, as well as SbW development programs

MotionIQ/Health™
MONITOR MORE. MAINTAIN LESS.

Prognostics software enables smarter, data-driven maintenance that prevents failures before they happen & keeps vehicles on the road longer

SOLUTIONS: Prognostics, Tire Health & Tire Parameter Detection

- **Enables proactive scheduled maintenance:** Predicting issues before they occur allows for enhanced convenience & consumer satisfaction

- **Improved vehicle uptime:** Proactive maintenance is critical for fleets (buses, trucks, delivery vehicles) to prevent costly downtime & repairs
- **Additional safety layer:** Provides additional safety "layer" to complement hardware redundancies

MotionIQ/Dev™
DESIGN SMARTER. DEVELOP FASTER.

Advanced software tools – backed by Nexteer's systems integration & software development expertise – for speed-to-market & reduced costs

- **Design It. Build It. No Coding Required:** Our Model-Based Development Tool *accelerates steering feature development - from days to minutes* - through automated coding & integration
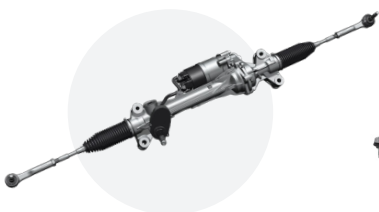 - Empowers OEMs to safely design their own in-house steering features & seamlessly integrate – all in a model-based environment
  - Reduces costs, shortens production lead times & minimizes error-prone manual coding

- **Early system-level verification:** Complete testing & validation capabilities – with platforms ranging from Hardware-in-the-Loop simulation to Virtual ECU tools – for greater cost & time efficiencies

- **Software development process:** Certified ASIL D compliant with the ISO 26262 Functional Safety Standard and successfully assessed for ASPICE compliance

- **Comprehensive systems engineering support:** Dedicated to fostering strong partnerships by providing software development, integration, validation & systems engineering support with agility, responsiveness & quality

Nexteer, Your Motion Control Software Partner with Safety-Critical Expertise

- **Proven industry leadership:** 115+ million Electric Power Steering Systems with varying levels of software & cybersecurity per OEM requirements

- **Global in-house ownership:** Software design, development, testing & validation adheres to stringent levels of quality & compliance with customer specifications, industry protocols & regulations

- **Vehicle integration & systems engineering:** Decades of expertise in end-to-end integration of embedded automotive software - from stand-alone tools to full turn-key solutions

MotionIQ Software – The INTELLIGENCE POWERING Nexteer's Steering & Motion-by-Wire SOLUTIONS

Complete Electric Power Steering Suite
Modular, High Availability & High Output Options

Steer-by-Wire
In-house Handwheel Actuator, Roadwheel Actuator, Systems Software & Integration

Rear-Wheel Steering
Legacy as a pioneer of RWS-for-mass-production

Brake-by-Wire
Delivers digital, high-precision braking powered by actuators at each wheel

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