

**North American International Auto Show  
Detroit 2012**

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## **JIM HARKINS**

Senior Manager, Engine Electrical Group  
DENSO International America, Inc.

Jim Harkins is Senior Manager of the Engine Electrical Group for DENSO International America's (DIAM) Engine Electrical Engineering Department, located in Southfield, Mich. He is responsible for overseeing the design and development of starters, alternators, start-stop systems and hybrid electric vehicle (HEV) components.

Harkins joined DIAM in 1996 as an Application Engineer, responsible for the development of starters and alternators for Chrysler. In 1999, Harkins was promoted to Senior Engineer, where he led application development of DENSO's segment conductor alternator series to Chrysler and General Motors. Harkins was appointed to the position of Staff Engineer in 2001, and manager in 2004.

In 2008, Harkins was promoted to his current position as Senior Manager, where he works with North American automakers on HEV and start/stop component and system development.

Prior to joining DENSO, Harkins worked on wire harnesses for Ford Motor Co., as an intern with Alcoa Fujikura in Allen Park, Mich.

Harkins received his Bachelor of Science in Electrical Engineering from the University of Michigan in Dearborn, Mich.

He is an active member in the Society of Automotive Engineers Electrical Systems Group Committee, Engineering Society of Detroit and a member Michigan Tech Chief's Challenge Chief's Council

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