Dr. Hans-Peter Hoffmann
Chief Systems Methodologist, IBM Rational Software

Dr. Hoffmann received a Master degree in Nuclear Physics, and a Ph.D. in Fluid Dynamics (Shipbuilding).

He has over twenty five years of experience in the design and development of complex systems in the aerospace/defense industry (submarines, tanks, missiles, space crafts, and commercial/military aircrafts) as well as in the automotive industry. As director of the simulation department of the Missile Division at MBB, Germany (now EADS) he developed a model-based methodology for the design and analysis of missile flight control systems - especially via hardware-in-the-loop simulation.

A renowned and respected specialist in model-based real-time systems design, he is responsible for delivering senior-level consulting, mentoring, and training to embedded systems developers.

Companies in the aerospace/defense industry include Alenia, Airbus Industries, BAe Systems, Boeing, Chengdu Aircraft, EADS, Eurocopter, General Dynamics (USA, Canada), GIAT, JPL, Lockheed Martin, Northrop Grumman, NASA, SAAB, UTC (Hamilton Sundstrand, Pratt & Whitney, Sikorsky), Raytheon, and Thales.

Companies in the automotive industry include BMW, DaimlerChrysler (Germany, USA), Ford (UK, USA), GM, PSA, Fiat, VW, and respective suppliers in Europe and the US.

Dr. Hoffmann developed together with Dr. Bruce Douglass the Integrated Systems / Embedded Software Development Process HARMONY®, with combines SysML-based systems engineering and UML-based software engineering.

Dr. Hoffmann can be reached at hoffmape@us.ibm.com