

Biographical Sketch

David Fiddes

In his 22 years as an engineer with Chrysler, Dave spent his entire career working on developmental and production engines. Component responsibilities include pistons, connecting rods, piston pins, bearings, crankshafts, vibration dampers, sensors, oil pumps, high pressure fuel pumps, fasteners, timing drive systems, cam shafts, cam phasers, etc. Many of these parts went into high volume production over a period of several years. Dave has applied many of the latest techniques to ensure a quality product at or near the price target and on time: function models, Design Failure Mode and Effects Analysis (DFMEA), Design Verification Planning and Reporting (DVP&R), and Test to Failure (TTF).

For more than five years Dave worked in a small, off site development facility where he designed, fabricated and tested components on a daily basis. This included everything from operating metal lathes to designing on Catia to making daily recordings on long term durability stands.

As an instructor with Center for Professional Studies, Dave is able to communicate design and development techniques with real world experience – not just theory. To stay current with the industry technical trends, Dave has taken many technical tools and technique courses including: Design of Experiments, Finite Element Analysis (FEA), Catia V5, Geometric Dimension and Tolerancing (GD&T), Root Cause Analysis, Project Management, and Design for Six Sigma. All of his experience and training make Dave and industry expert in the area of product development.

Dave has a Bachelors degree in Mechanical Engineering from Purdue University. He also has two automotive related patents and two patents pending. He is the co-author on a SAE paper related to a mechanical variable valve lift mechanism which he prototyped and tested on a four cylinder engine.