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Professional Experience

- **2005-Present.** Lead Program Technical Coordinator, Challenge-X Program at Argonne National Laboratory. Lead technical manager of nationally acclaimed university competition program focused on minimizing energy consumption, emissions and greenhouse gases by reengineering crossover sport utility vehicles utilizing hybrid powertrains and renewable fuels.
- **2001-2005.** Research Engineer, General Motors Research and Development/ Powertrain; Detroit, Michigan
 - Supervised 10+ member team to develop proprietary combustion system under aggressive deadlines
 - Results currently being utilized in production

Education

- MS, Mechanical Engineering, University of Wisconsin-Madison
- BS, Environmental Engineering, University of California-Riverside

Publications

- F. A. Jehlik, "Investigation of fuel injection targeting optimization of a small-bore highspeed CIDI engine using response surface methodology," GM R&D Powertrain Systems Research Lab, PSR-096, 2004.
- F. A. Jehlik, Ramachandra Diwakar, and Shengming Chang, "CIDI combustion system development and optimization for a FGP series B 1.9 L diesel engine for Euro-4 application." GM R&D Powertrain Systems Research Lab, PSR-095, 2004.
- Ramachandra Diwakar, Shengming Chang, Mark Huebler, and F. A. Jehlik, "Diesel combustion chamber shape optimization via computational fluid dynamics with automated grid generation," GM R&D Powertrain Systems Research Lab, PSR-058, 2002.
- "Investigation of intake port fuel films in a small utility air-cooled engine" SAE #2001-01-1788.
- F. A. Jehlik, "Investigation of Fuel Film Effects in a Small Air-Cooled Utility Engine," Masters Thesis, University of Wisconsin-Madison, 2000.
- "Development of a Low-Emission Dedicated Ethanol-Fuel Vehicle with Cold-Start Distillation System" SAE #1999-01-0611.

Patents

- “Diesel engine with cam phasers for in-cylinder temperature control”, Co-Author for GM Patent US# 6,918,384-B2. Assigned to General Motors Corporation, Detroit, Mich. Filed on Dec. 08, 2003, as Appl. No. 10/730,436.
- “Injection strategy for low noise and soot combustion” Boris Co-Author for GM Patent US #20,050,224,044. Assigned to General Motors Corporation, Detroit, Mich. Filed on Apr. 08, 2004, as Appl. No. 60/560,455.
- “Teflon Coated Heat Exchanger”. Assigned to General Motors Corporation, Detroit, Mich. Filed on Apr. 25, 2006, Appl. No. 20070246203.