

Technologically advanced and seasoned professional with years of experience in program management, powertrain engineering, fuels engineering, and vehicle launch management. Proven record of accomplishment of defining and guiding implementation of best practices for vehicle launch processes and standards to achieve better launch stability and significantly improved vehicle quality at job#1. Expert in all aspects of driving multi-million- projects meeting key program deliverables, product development, vendor and contract negotiations, and budget management.

Education

PhD in Combustion Chemistry
University of Stuttgart

BSc, Physics and Chemistry
Universities of Tübingen and
Stuttgart

Certifications

**Teacher Training Course: Physics and
Chemistry for
Gymnasium**

Language

German: Mother Tongue
English: Bilingual
French: Fair
Spanish: Fair

Area of Expertise

Program Delivery
Project Management
Powertrain Engineering
Value Engineering
Continuous Process Improvement
Business & Technical Requirements
Data Management
Training & Development
Relationship Building
Product Development
Product Launch
Value Stream Mapping
Automotive Engineering
Failure Mode and Effects Analysis
Lean Manufacturing
Fuels & Lubricants Engineering

Technical Proficiencies

MS Office: Windows, Excel, Ms Project, Word, PowerPoint

Career Experience

Concawe, Brussels, Belgium 05/2023 – today
Science Executive Fuel Quality & Emissions

Coordination of Concawe's activities related to fuel quality, specifications, life-cycle performance in vehicles/vessels, airplanes including pollutant and GHG emissions and other mobility related topics in Europe. Serve as a technical expert and represent the European fuels industry in interactions with European and global bodies on technical issues related to fuel quality and emissions

Ford, Valencia, Spain 2016 – 04/2023
Vehicle Launch Manager (most complex Vehicle Assembly Plant)

Headed successful launch of all C-, V- and CD-car vehicle programs in line with set cost, time, and quality. Implemented a unique permanent vehicle launch team in Valencia consisting of over 80 cross-functional team members, delivering all program launches in Valencia.

- Improved key launch processes to ensure optimal manufacturability, adherence to tolerance guidelines, functionality, tool design, machine design, and safety and ergonomic concerns.

- Identified and resolved launch build issues leading to better cycle times, reduced spoilage, improved process capability, and increased throughput.

- Developed and documented new launch processes and best practices.

Ford of Germany 2007 – 2016
Vehicle Program Manager (Global C-Car and CD-Car Platforms)

Led numerous regional and global vehicle programs meeting business plan objectives from program kick off until job#1 in the respective vehicle plants. Oversaw the implementation of the equipment and processes necessary for the product in multiple location launch.

- Recognised for delivering and launching vehicle programs in various Ford manufacturing plants across Germany, USA, Russia, and Spain.
- Identified and swiftly resolved operational issues for timely delivery of launches.

Ford of Germany
Value Engineering Manager

2002 – 2007

Led and managed a cross-functional team between engineering, purchasing and Finance (cost estimating) to identify cost gaps on all existing European powertrain components. Yearly cost savings of 25–35 \$ mils were achieved by either re-engineering the component, resourcing to low cost suppliers or price negotiations with incumbent supplier. Technical capabilities and cost competitiveness of low-cost country suppliers for series production sourcing were assessed

- Engineered and released new cost optimized design for each component through extensive design benchmarking
- Identified new low-cost country supplier to build a global competitive supply base for Ford's powertrain components
- Ensured that all new sourced parts meet the required quality standards and specifications.
- Represented Ford in negotiating contracts and formulating policies with suppliers.
- Secured and selected cost-effective supplier and implemented cost optimized strategies, saving significant cost and enhancing organization revenue.

Ford of Germany
Powertrain Engineering: Supervisor Cylinder Head Components Group

2000 – 2002

Managing a team of powertrain engineers with design and release responsibility for all cylinder head components and sub-systems of the ZETEC SE gasoline engine family: cylinder heads, cylinder head gaskets, complete valve train systems, primary drive systems consisting of timing belt, plastic cam sprockets, and crankshaft sprocket, plastic cam covers and plastic front covers

- New technology 1-layer cylinder head gasket for the ZETEC SE engine family was developed and released
- Developed and released as first OEM in the industry a plastic cam sprocket design

Ford of Germany
Powertrain Engineering: Supervisor Fuels, Lubricants and Oil Filters Group

1996 – 2000

Managing a team of engineers with design and release responsibility of initial fill fuels, initial fill engine lubricants, oil filters and oil quality sensors for all European gasoline engines

- New low friction engine for best in class fuel economy performance developed and released
- Developed new engine lubrication system requirements for 30.000 km and 2 year (gasoline) and 50.000 km and 2 years (diesel) within 1.5 years for Ford globally including Ford US, Mazda, Volvo and Jaguar/Landrover

Ford of Germany
Powertrain Engineering: Fuels Engineer

1994 – 1996

- Design and release responsibility for initial fill fuels and test fuel specifications in European plants
- Representing Ford in various international industry like ACEA, CEC, VDA, DIN on fuel issues

Shell Research Ltd. Chester (UK)
Scientist, Combustion and Fuel Department

1991 – 1994

- Experimental investigation of autoignition chemistry of engine knock and calculation of flammability limits of hydrocarbon/air mixtures for application to Shell Ethylenoxid production process

DLR Stuttgart (German Aerospace Agency)
Scientist, Institute for Physical Chemistry of Combustion

1986 – 1991

- Experimental investigation and modeling of reaction kinetics of technical combustion processes

External Presentations

Technical Academy Esslingen (Germany): 1st International Colloquium Fuels

Presentation: „Worldwide Fuel Requirements - A Global Automotive Companies View “16 - 17 January 1997

Institute of Mechanical Engineers (Imech E) Seminar in London (UK): Automotive Fuels for the 21st Century “

Presentation: 21st Century Automotive Fuels - Ford’s View on Worldwide Fuel Requirements. 21 January 1997

Japanese Automobile Manufacturers Association (JAMA) Gasoline and Diesel Subcommittee Meetings in Tokyo (Japan):

Presentation: „Worldwide Fuel Requirements - Ford’s Perspective “, 3 - 4 April 1997

Green-Tech 1998: International Conference on Sustainable and Renewable Raw Materials in Utrecht (Netherlands):

Presentation: „Ford’s Experience with Alcohol Fuel Vehicles “16-17 March 1998

ISO Meeting Working Group TC70/SC 7 "Methods of Test for Full-Flow Lubricating Oil Filters for Internal Combustion Engines" in San Diego, California (USA):

Presentation: " ISO/DIS 4548-10: Life and Cumulative Efficiency in the Presence of Water in Oil", 1-2 October 1998

December 1999: EUROFORUM-Conference in Frankfurt: Innovative Fuels for Future Vehicle Technologies

Presentation: "Fuels for New Engine Technologies"

October 2002: Aachen Colloquium on Engine and Vehicle Technology

Presentation: "Reducing Deposits in a Direct Injection Spark Ignition Engine"