

**Personal Presentation for cooperation**

Dipl.-Ing. Hans-Peter Hemmer - Nuclear Technology

Van-Dyck-Strasse 5, D-53757 Sankt Augustin (Germany)

Phone: +49 174 744 2244 threema, skype, zoom, hangout, wechat and snapChat "d3dhemmer"

d3dhemmer@gmail.com [hp@d3dhemmer.com](mailto:hp@d3dhemmer.com)**Experience/Qualifications automotive development**working in the automotive industry since **1982 (Certification)**

interdisciplinary advanced automotive development experience

know-how and overview of latest suspension technologies including

advanced driving simulation and optimization

**Porsche** Chassis Design

wheel program (color),

911 4 WHEEL-DRIVE FORGED WHEEL HUB

911 RALLY DAMPER STRUTS 4WD

911 CHASSIS DRAWINGS FOR TYPE Approval ([TÜV - PDF](#))

928 ABS brake implementation

911 RS and Turbo-LOOK - by partlist design

AUDI 4 WHEEL DRIVE REAR suspension CAST ALUMINIUM cross beam

FRONT ALUMINIUM FORGED WISHBONE, shock absorber and MOUNTINGS

FRONT suspension ANTI-ROLLBAR

BMW 3er 4 WHEEL-DRIVE

FORGED WHEEL HUB

BALL JOINT Assembly

CAST ALUMINIUM CROSS BEAM

FRONT suspension ANTI-ROLLBAR

**Opel** 4 WHEEL-DRIVE front and rear suspension

suspension - high speed braking solution

4WD hang-on transmission ([cost reduction 230,-DM](#))electric [auxiliary drive 4WD](#)[MULTI-LINK REAR-SUSPENSION Lotus OMEGA](#)DYNAMIC SAFETY REAR AXLE WITH ELECTRIC [4-WHEEL STEERING](#)[4 wheel steering development program](#)

FRONT AXLE SLA (short-long arm)

**MAZDA** suspension DEVELOPMENT ([HEIGHT ADJUSTMENT 300mm](#) )LONDON TAXI ([narrow vehicle](#))LEANING CAR - [Suspension layout "tandem seater"](#)Phantasiade "[ballrider](#)" electric personal transportHQ Hiroshima INTEGRATION of [ERGONOMIC Software ANTHROPOS](#)

development off 3D measuring software connected to TOKYO BOEKI Hardware

**Additional suspension projects:**Design suspension for [ecar-project](#) ([only Internet Explorer](#))

including test driving

[InoVAN \(BEV\)](#) suspension design and fine tuningINOVAN shown as QUICC 2008 at Paris motor show, have a [look](#)Amphibian vehicle with retractable suspension [QUADSKI](#)[Loremo](#) ultralight car suspension, McPherson for ultra-low bonnetLoremo show car [Geneva chassis structure](#)Loremo **carPC** and **infotainment**

R&amp;D 575kg electric car L7e - suspension build by Tier1 parts

**o2o** market - need electric commercial vehicles - research and report

Analysing technology &amp; player Frontend Modul automotive worldwide

New Motors how reporting system

Automotive development process 2018 - Flow and smart production with digital TWIN

and Industry 4.0 integrated VR-AR technology by electric vehicle (0 to 500.000units/year.

HMI Center dash (GM &amp; Model 3) and future instrumentation (Cockpit)

Traction batterie of future, requirement to Tier1 and needs of OEM

High integrated Drivetrain saving 35% energy at stop&amp;go mode (50% cost reduction)

New Vietnam automobile maker [VINFAST](#)**Knowledge and tooling's, I use:**Working with IPG CarMaker IPG since 2002 ([Hockenheim](#))Developing new CarMaker module for [energy-fuel calculation](#)Suspension measurement's and reports on various cars ([PDF](#))Many years of experience with CAD systems like [Catia/SolidWorks](#) and more ([since 1992](#)).

Working experience with international cultures

11 years at [Mazda European](#) R&D Center

Restauration EDM Fanuc TapeCut G-Code programming

Analysing [Magic Quadrant for Business Intelligence Platforms](#)Projected Demand for Lithium to 2030 [simulation with scenarios](#)Hyperactive [Data Journalism - tableau](#)Hyperactive simulation [Data Journalism for automotive analyzing](#)**Know-how and experience in fields of automotive development**

Transmission design 4WD (Adam Opel)

4Wheel steering (turning circle and ride handling optimization)

Infinitely variable transmission ([IVT LOREMO+](#))

Automotive ergonomic and packaging (unpublished book)

Electric Hub motor (GM EV2 and [Freedom project](#))

CE engines, opposed piston engines (REX) - keep it simple

Thermodynamic layout, simulation and optimization with

extensive use of software ([Diesel-RK](#) since 2006) [Report](#)[Car-men-u](#) online database concept to live ([Layout](#))Leading development on [car-men-u automotive design database](#)Online questionnaire "[Design Lounge 2005](#)" (with TAN transaction numbers)Analysing, simulating and [optimization of production processes](#)(consideo modeler; [imodeler](#))**Electric Vehicle** versus [Petrol Car online Calculator](#)Planning Chassis development "[Spyker MPV](#)" 2012 ([timing](#))Production planning "Fisker SURF" ([model base-2-surf](#))Development hyper-fast [online visual picture interface](#)Everybody drives electric on smartphone ([prototype](#)) = **VeDRIVE**Analysing wiper movements and area with [iPad](#) and software provided by **Autodesk**Analysing Renault [TWIZY door](#)Automotive child seat rating [online](#)Forio simulation "[Need of Lithium, Total cost of ownership](#)"Programming "Bezier curve" interface for online use > [have a look](#) > [##](#)Development **VEHICLE\_ENGINEERING**plus - [parametric body in white](#) (BIW)Suspension research => target **575kg** electric vehicle

Benchmark McPherson FWD and "future" (cost reduction 53€/unit)

Workshop on [COMSOL multiphysics engineering](#) simulation software;

connection to CAD/CAE ....

Excellent use of computer coding to do research and analysing to value

systems and products (many samples on request)

The [minicaster](#) - Television signal to go life by satelliteMaking the mayor of Sankt Augustin [private webpage](#)Father of Fraunhofer IIS high energy scan computer [tomography \(CT\)](#)Welcome to my 61 's birthday ([online](#)) Apple iWatch in action**Crossover technologies and strategies automotive to rotorcraft**youngcopter [project "NEO"](#) (ongoing pleasure since 10 years)[Trijekt](#) engine management systems handling and mapping - adapted to NEO**Output software/hardware**42 automotive patent announcements ([PDF reads](#))32 concept cars ([11 electric-hybrid](#) )561 automotive [online presentations](#)4 public artworks | [handshake](#) | [FLEXION](#) | [music instrument](#) |4 online games| [UNTANGLE](#) | [click>2 challenges \(CN vers.\)](#) | [Tic-Tac-Toe](#)Memo games to train your brain with some Ai [#click#](#)relaxing game to my nephews [#harmony#](#)>80.000 automotive design pictures (offline | [example](#) |)>35.000 automotive exhibition pictures (online|[one of many](#)|)121 photos eating [Lunch](#) with friends**Publication**<https://issuu.com/d3dhemmer>[online newspapers d3dhemmer](#)**Calibre ebook library** (2083 books)**Youtube:** [d3dhemmer](#)**Vimeo:** [d3dhemmer](#) (**newest VR-AR development**)**Art in "hard and soft"** (independent projects)<https://d3dhemmer.com/coolFLEXION/><https://issuu.com/d3dhemmer/docs/ilight>[https://d3dhemmer.com/SEXapp\\_curve\\_car/](https://d3dhemmer.com/SEXapp_curve_car/)[https://d3dhemmer.com/6174/\(need Adobe flash\)](https://d3dhemmer.com/6174/(need Adobe flash))[http://d3dhemmer.com/droppline\\_music/](http://d3dhemmer.com/droppline_music/)<https://d3dhemmer.com/untangle3/><http://d3dhemmer.com/ccooler/>[https://d3dhemmer.com/D3D\\_pad/](https://d3dhemmer.com/D3D_pad/)[VR-AR handshake for you](#)[Art of Visual story telling #click#](#)**Miscellaneous**[d3dhemmer/EM50/](#)[d3dhemmer/H-BRS/](#)[d3dhemmer/Tangle/](#)

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