

## Personal Presentation for a cooperation

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### 2. Employment Porsche Weissach, Adam Opel GM, MAZDA automotive development

32 concept cars ([10 electric-hybrid](#) visuals)

### 3. Experience/Qualifications in automotive development

- working in the automotive industry since **1982** ([Certification](#))
- interdisciplinary advanced automotive development experience
- Know-how, hands-on and overview of the newest technology; specialized on suspension technologies including advanced driving simulation and optimization.

- Porsche Chassis Design
- Porsche wheel program (color)
- Porsche 911 4 WHEEL-DRIVE FORGED WHEEL HUB
- Porsche 911 RALLY DAMPER STRUTS 4WD
- Porsche 911 CHASSIS DRAWINGS FOR TYPE Approval ([TÜV 8MB-PDF](#))
- Porsche 928 ABS brake implementation
- Porsche 911 RS and Turbo-LOOK |part list design|
  
- AUDI 4 WHEEL DRIVE REAR AXLE CAST ALUMINIUM cross beam
- AUDI FRONT AXLE FORGED ALUMINIUM WISHBONE DAMPER AND Aluminum DAMPER MOUNTING
- AUDI FRONT AXLE ANTI-ROLLBAR
  
- BMW 3 SERIES 4 WHEEL-DRIVE
- BMW FORGED WHEEL HUB
- BMW BALL JOINT Assembly
- BMW CAST ALUMINIUM FRONT CROSS BEAM
- BMW FRONT AXLE ANTI-ROLL BAR
  
- Opel 4 WHEEL-DRIVE FRONT-AXLE and rear axle
- Opel AXLE against OVERBRAKING at HIGH SPEED
- Opel 4WD hang-on transmission ([cost reduction 230,-DM](#))
- Opel electric [auxiliary drive 4WD](#)
- Opel [MULTI-LINK REAR-SUSPENSION Lotus OMEGA](#)
- Opel DYNAMIC SAFETY REAR AXLE WITH ELECTRIC [4-WHEEL STEERING](#)
- Opel [4 wheel steering development program](#)
- Opel FRONT AXLE SLA (short-long arm)
  
- MAZDA suspension DEVELOPMENT ([HEIGHT ADJUSTMENT 300mm](#) )
- MAZDA LONDON TAXI ([narrow vehicle](#))
- MAZDA LEANING CAR - [Suspension layout "tandem seater"](#)
- MAZDA Phantasiade "[ballrider](#)" electric personal transport
- MAZDA HQ INTEGRATION of [ERGONOMIC Software ANTHROPOS](#)

- MAZDA development 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 tuning
- INOVAN shown as QUICC 2008 at Paris motorshow, have a [look](#)
- Amphibian car with retractable suspension
- [Loremo](#) ultralight car suspension, McPherson for ultra-low bonnet
- Loremo show car [Geneva chassis structure](#)
- Loremo carPC and infotainment
- 575kg electric car suspension build with Tier 1 parts

#### **4. Knowledge and tooling's I use:**

- Working with IPG CarMaker 4.0.3 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](#)).
- Ergonomics and automotive packaging knowledge (interior & exterior)
- Working experience with international cultures (11 years at Mazda European R&D Center)
- Restauration EDM FanucTapeCut G-Code programming
- Analyzing [Magic Quadrant for Business Intelligence Platforms](#)
- Projected Demand for Lithium to 2030 [simulation with scenarios](#)
- Hyperactive [Data Journalism for automotive analyzing](#)

#### **5. Know-how and experience in fields of automotive development**

- Transmission design 4WD (Adam Opel)
- Infinitely variable transmission (IVT LOREMO+)
- Automotive ergonomic and packaging
- Electric Hub motor (GM EV2 and [Freedom project](#))
- ICE engines, opposed piston engines (REX)  
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)
- Analyzing, simulating and [optimization of production processes](#) (consideo modeler; [imodeler](#))
- **Electric Vehicle** versus [Petrol Car online Calculator](#)
- The Immersed Boundary Approach to Fluid Flow Simulation ([ANSYS Marco Lanfrit - Hans-Peter Hemmer](#))
- Planning Chassis development "[Spyker MPV](#)"
- Production planning "Fisker SURF" ([model base-2-surf](#))
- Development hyper-fast [online visual picture interface](#)
- Everyone drives electric mobiles on smartphone ([running prototype](#))
- Analyzing wiper movements and area with [iPad](#) and software provided by Autodesk

- Analyzing Renault [TWIZY door](#)
- Automotive child seat rating [online](#)
- Programing "Bezier curve" interface for online use > [have a look](#) > ##
- Development **VEHICLE\_ENGiNEERING**plus - [parametric body in white](#) (BIW)
- Advantages, applications, comparison "[3wheeler](#)" to "FWD-car"
- 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 ....
- Create [the Future Design](#) Contest 2014 ([Orbital iVT transmission](#))
- [Know-why.net](#) We See the Interconnections
- Excellent use of computer coding to do research and analyzing to value systems and products (samples on request)
- 10 years automotive design (styling) reports.

## 6. Output hardware

- 42 automotive patent announcements ([PDF reads](#))
- 32 concept cars ([10 electric-hybrid](#) )
- 377 automotive [online presentations](#)
- 3 public artworks | [FLEXION](#) | [music instrument](#) | [UNTANGLE](#) |
- >70.000 automotive design pictures (offline | [example](#) |)
- >30.000 automotive exhibition pictures (online | [one of many](#) |)
- >1800 eBooks on private server hardware

## 7. Publication

- [myBLOGspot](#)
- <http://issuu.com/d3dhemmer>
- [online newspapers d3dhemmer](#)
- <https://flipboard.com/@d3dhemmer/>

## 8. Crossover technologies and strategies automotive to rotorcraft

- youngcoper [project "NEO"](#) (ongoing pleasure since 10 years)
- [Trijekt](#) engine management systems handling and mapping

### 1. Art in "hard and soft" (independent projects)

- <http://d3dhemmer.com/coolFLEXION/>
- <http://issuu.com/d3dhemmer/docs/ilight>
- [http://d3dhemmer.com/SEXapp\\_curve\\_car/](http://d3dhemmer.com/SEXapp_curve_car/)
- <http://d3dhemmer.com/6174/>
- [http://d3dhemmer.com/dropline\\_music/](http://d3dhemmer.com/dropline_music/)
- <http://d3dhemmer.com/untangle3/>
- <http://d3dhemmer.com/ccooler/>
- [http://d3dhemmer.com/D3D\\_pad/](http://d3dhemmer.com/D3D_pad/)

### 2. Miscellaneous

- <http://d3dhemmer.com/Tangle/>