



# Nico Fuchs

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*Dipl.-Ing. Maschinenbau  
German Graduate in Mechanical Engineering*

## Nico Fuchs - Freelance

- Dedicated system integration engineer and software developer
- Proactive and ambitious
- Good team player
- Straightforward and down-to-earth

## Projects and Achievements

- Creation of middleware for STW control units
- Completion of test library for testing of machine software
- Application for the evacuation of cruise liners, research project
- Infrastructure and software library creation for licensing of software
- Firmware for HCS12x for controlling of newly developed hydraulic valves

## Education

- 1993–1997 **motor car mechanic**, *vocational training in Leipzig, Germany.*
- 2000–2001 **advanced technical examination**, *Technical College in Leipzig, Germany.*
- 2001–2006 **graduated in mechanical engineering**, *University of Applied sciences in Stralsund, Germany, Dipl. Ing. Maschinenbau.*  
Topic of the scientific diploma thesis:  
Solubility of gases in Diesel fuel and impact of the mixture on the combustion process

Mittelweg 3 – 18442 Niepars OT Martensdorf

☎ +49 179 7714508 • 📞 +49 38321 164003 • ✉ info@nfengineering.de  
🌐 www.nfengineering.de

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## Special Skills and knowledge

### 3D-CAD

CATIA V5 professional  
Solid Works power user

Polyworks professional  
CADD5i professional

### CAE

ANSYS V13.0 user

### Requirements Engineering

Enterprise Architect power user

Doors user

### Text processing

Office-Paket zert. MS-Office Specialist  
MS-Project professional

LaTeX professional

### Data bases

mysql professional  
MSAccess professional  
MS Sharepoint 2010 zert. Admin

Oracle professional  
Microsoft SQL Server power user

### Programming languages

Python power user  
VBA professional  
IEC 61131 power user

C/C++ professional  
Delphi professional  
CODESYS V3 power user

### Software testing

Vector professional

ECU-Test professional

### Embedded Computing

VHDL user

Assembler user

### Image processing

Adobe Photoshop power user

Adobe Illustrator power user

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## Foreign languages

English Good command  
Russian Basic knowledge

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## Professional experience

- 1997–2000 **Car mechanic.**  
trained in maintenance, servicing and automotive electronics, special experience with BMW vehicles.
- 2000–2004 **Car racing mechanic, with Sax Racing, Leipzig.**  
in charge of two BMW E 36 participating in the Nürburg Ring Race, motor maintenance M42, M44, experienced in the designing and testing of motor components, development of various components.
- 2003–2004 **Internship, with Daimler, Stuttgart.**  
entrusted with the creation of special test programs, preparation of a concept to enable installation simulations of car components.
- 2004–2005 **Student assistant, at University of Applied Sciences, Stralsund.**  
Project work: Development of multiphase motor control for gripper systems in cooperation with Infineon Technologies Dresden, design and development of a 3D CAD micro gripper model, development and production of a control unit to enable various machine motions.
- 2006–2011 **Employed, at Max-Planck-Institute, in Greifswald.**  
involved in the W7-X experiment, in charge of configuration management, project manager for "Tools and data bases", preparation of technical documentations on component collision risks, in charge of subsequent works on components for W7-X, design and engineering of components used for the experiment, staff training instructor and in charge of CATIA V5 introduction, Polyworks and Office Packages.
- 2011–2012 **Software developer, with Marinesoft GmbH, Rostock.**  
in charge of ship simulation programs used for the training of operating staff, development of physical models for technical and propelling systems of the frigate F 125, user interfaces for visualising of ship control systems, administration of Microsoft Sharepoint Server 2010.
- 2012 **Electrical systems integration engineer, P+S Ship Yard, Stralsund.**  
in charge of description and coordination of interfaces for various electric ship systems, coordination of suppliers' and ship builders system interfaces, creation of tools for yard related requirements engineering.

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## Current activities

- since 2013 **Freelance - System integration engineer and software developer.**  
Fully equipped office and lab, modern facilities, flexible working hours

### Specialised in:

- Object oriented programming (C++)
- Low-level programming (C, assembler)
- Programming according to IEC 61131, CODESYS V3
- Control algorithms
- Middleware for encapsulating and abstracting of hardware functions
- Creation of hardware independent applications (Qt)
- Automated software testing (CANoe, ECU-Test)
- Requirements management (Doors, Enterprise Architect)

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