Prof. Dr. Salvatore Sternkopf

PERSON

Name	Prof. Dr. Salvatore Sternkopf
Maiden name	Cusenza
Birth	18.12.1979
Nationality	German / Italian
Place of birth	Wolfsburg
Mother tongue	German / Italian

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SOCIAL MEDIA

www.linkedin.com/in/prof-dr-salvatore-sternkopf

INTERESTS & HOBBIES

- Squash
- SIM-Racing and Motor Sport
- Dance Sport

CURRICULUM VITAE

today – 02/2022
University of Applied Sciences (HAWK) Göttingen
Professor for Materials Analysis, Materials Science and Chemistry

01/2022 – 04/2019
Supplier Readiness E-Mobility
Supplier Management E-Mobility, Volkswagen AG, Wolfsburg
Purchased parts management, battery systems and electrics.
Coordination of strategic partnership between Volkswagen AG and CATL.

03/2019 – 03/2016
Innovation Scout and Technical Consultant
Group Production Planning, Volkswagen AG, Wolfsburg
Innovation management including scouting and tracking of new production technologies and the development of new testing facilities. Implementation of “elementary adhesive gluing” and in-line ndt-test cells in vehicle production.

02/2016 – 10/2012
Quality Assurance Manager
Sub-Department Head, Quality Assurance, Volkswagen AG, Wolfsburg
Technical and organizational management of the corrective action process. Control of error and material analysis on metallic components such as mechatronics, valves, control devices and e-machines.

09/2012 – 06/2011
Software Development Engineer
IAV GmbH, Gifhorn
Development engineer and project manager for development of physical models of ECU functions.

05/2011 – 10/2010
Research Assistant
Technical University of Braunschweig
Research on LiFePO4 battery cell materials and Nickel Lanthanates

09/2010 – 05/2010
Research Assistant
Leibniz University of Hannover
Research on hydrogen embrittlement of low alloy steels.

04/2010 – 11/2009
Research Associate
DESY, Hamburg
Research on accelerator physics.

EDUCATION

11/2008 – 01/2006
PhD program in Nuclear Solid State Physics
Georg-August-University of Göttingen
Deepening: Investigation of the amorphization of iron and austenitic stainless steel films, Metallurgy.

11/2005 – 10/1999
Study of Physics
Georg-August-University of Göttingen
Deepening: Nuclear Solid State Physics, Metallurgy.

07/1999 – 08/1992
Graduation from High-School
Ratsgymnasium – Wolfsburg
Scientific / linguistic focus

AUTOMOTIVE INDUSTRY EXPERTISE

Employee Management
technical and disciplinary management
employee interviews and assessments
enforcement of professional and labor law measures
budget responsibility

Testing Technology
Classical destructive and non-destructive testing technology
Development of new testing methods
Acquisition of subsidies

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Innovation Management:
Technology Development Process
Manufacturing Technologies
Scouting and Roadmapping of Future Technologies

Component Experience and Laboratory Management in the Subject Areas:
Batteries & Fuel Cells
E-machines
Magnets
Engine and Transmission Control Units
Transmission Mechatronics

UNIVERSITY EXPERTISE

Topics:
Nuclear Solid State Physics, Materials Science and classical Metallurgy

Specialization in the fields of:
Characterization of Battery and fuel cell materials
Carburizing, Nitriding and Oxidizing of Iron and Steel.
Amorphization Behavior of Iron/Steel
Metallic Glasses

Many years of experience in characterization methods:
Mössbauer spectroscopy (TMS, CEMS, CXMS)
X-ray absorption (XAS), especially in Extended X-ray Absorption Fine Structure (EXAFS)
X-ray diffraction (GI-/XRD, XRR)
Ion Implantation and Rutherford backscatter spectrometry (RBS)
Resonant Nuclear Reaction Analysis (RNRA)
Transmission Electron Microscopy (TEM)
Atomic Force Microscopy (AFM)
Scanning Tunneling Microscopy (STM)
Magneto-optical Kerr effect (MOKE)
Corrosion tests / Electromotive Force Measurements (EMF)
Differential Scanning Calorimetry (DSC)
Hardness Measurements (Nanoindentation)