

# Curriculum Vitae

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**EDUCATION:** Chemical Engineering; M.S. Fachhochschule Hamburg (Institute of Technology), Germany, 1984-1989  
Degree: Dipl.-Ing.

**CERTIFICATIONS:** Environmental, Energy & Quality Management Systems Auditor (ISO 14001, ISO 50001, ISO 9001 IRCA-certified)  
Certified Environmental Auditor (EMAS II, ISO 14001)  
Certified ISCC EU and ISCC Plus Auditor  
Certified Officer for Emissions, Waste, Water Protection, and Safety  
Registered BAFA DIN 16247 Energy Auditor  
Certified EUREM "European Energy Manager"  
Certified Asbestos Inspector according to TRGS 519  
Licensed operator of wastewater treatment facilities

## QUALIFICATIONS SUMMARY:

Professional experience since 1989, including six years working experience in the USA. My current expertise is in the area of environmental & energy consulting, specifically environmental compliance and due diligence auditing, ISO 14001 environmental management systems auditing, ISO 50001 energy management systems auditing, ISO 9001 Auditing, and DIN 16247 energy auditing. In addition, I worked on projects including the evaluation of green fields planned to be developed as Logistics Centers, asbestos surveys, hazardous building material inventories, wastewater treatment, pollution prevention, and storage of hazardous materials.

## EXPERIENCE:

Conducted ISO 14001 / ISO 50001 environmental / energy management systems audits and DIN EN 16247 energy audits. Conducted Due Diligence Environmental Site Assessments and EH&S Compliance Audits; prepared and updated company-specific compliance checklists and legal registers; conducted Asbestos Surveys and prepared Asbestos Management Plan; performed assessments of drinking water systems serving U.S. Army Installations in Germany; prepared Audit proposals; inspected and evaluated hazardous material storage and handling stations; assessed, evaluated, and designed wastewater treatment systems for the removal of metals from industrial plating operations; analyzed the energy efficiency of a car wash station as part of the recent certification as European Energy Manager; supported the authorities in setting up a digital contaminated site register.

## PROFESSIONAL HISTORY:

### FREELANCE CONTRACTOR SINCE 1999

Worked as a freelance consultant for companies such as ARCADIS, HPC, AMEC, CBRE, Tauw, Waterman, URS, ITUS, Cataly, AECOM, TÜV Süd, DNV GL und SGS.

Conducted environmental site assessments and desk studies of various residential, commercial and industrial properties throughout Europe for a wide range of clients. The audited facilities included i.e. biotech companies, dairy and fruit juice production sites, car repair shops, metal and chemical processing facilities, linoleum production, rubber manufacturing, valves and accessories, technical gas production, drum reconditioning sites, truck leasing, automotive supply, and electrical/metal tools

manufacturing facilities. In addition, due diligence audits were also conducted on green fields, planned to be developed as Logistics Centers, which included the assessment of geotechnical conditions for foundation recommendations, assessment of planning applications, site access and traffic, and present or planned utilities. The audits were based on the ASTM Standard, but often also included detailed environmental compliance assessments. In addition, EH&S compliance audits were conducted, checklists, legal registers, and various audit proposals were prepared; conducted a solder waste handling study, and assisted setting up a digital contaminated site register.

Conducted DIN 16247 energy audits and participated in ISO 14001 environmental management systems audits, ISO 50001 energy management systems audits and ISO 9001 audits.

Performed asbestos surveys/resurveys and prepared asbestos survey reports and management plans for U.S. Army Installations in Germany and prepared a hazardous building material inventory for a planned demolition of a multi-story building.

Managed inspection and evaluation programs of hazardous material storage and handling stations at automotive manufacturing sites.

**CDM FEDERAL PROGRAMS CORPORATION, FRANKFURT, GERMANY;  
1998 – 1999**

Within a German office of CDM I prepared Drinking Water System Assessments for the U.S. Army Corps of Engineers Europe District; Performed work plans, schedules, field surveys/investigations, document reviews, and personnel interviews.

The drinking water systems of five installations were evaluated and their assessments documented regarding their physical condition, management and water quality.

**REIPRO GALVANOTECHNIK APPARATEBAU GMBH, SINSHEIM-ESCHELBACH,  
GERMANY; PROJECT ENGINEER, 1996 – 1997**

At REIPRO I developed and designed a wastewater treatment system for a printed circuit board manufacturer near Erfurt, Germany. As a project engineer I was in direct contact with the customer, collecting the necessary data on site, evaluating the situation and suggesting pollution prevention methods. Designed the treatment system, prepared flow charts, maps, and cost estimates.

**SHIPLEY COMPANY, MARLBORO, MA, USA; PRODUCT WASTE TREATMENT  
ENGINEER, 1991 – 1996**

During the six years I spent in the USA, I served as a product waste treatment engineer for Shipley Company, Marlboro, Massachusetts. Conducted feasibility studies and developed waste treatment procedures for chemicals used in the electroplating and metal finishing industry. Assisted the R & D teams in pollution prevention by developing environmentally friendly products and supported customers in waste treatment and disposal issues.

**BIOCONTROL, HAMBURG, GERMANY; CHEMICAL ENGINEER,  
1989 - 1990**

Before I left Germany to go to the USA, I worked as Chemical Engineer for an environmental laboratory in Ingelheim and Hamburg, Germany. There, I gained experience in the collection and analysis of soil, water and air samples.

**GERMAN ARMED FORCES, 1982 - 1984**

Final grade: Sergeant

**LANGUAGE SKILLS:** German, English, French (basic)