

Marcel Engelbrecht

27. May 1996 in Bergisch Gladbach
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PROFESSIONAL EXPERIENCE

- 2024 - Now **ELT Elettronica GmbH**, Electrical Designer Hardware Development
- Electrical design according to MIL-STD-461/810/882
 - Focus on RoHS-compliant designs and implementations
 - Development of technical specifications
- 2023 - 2024 **FEV FeelEvolution**, E/E System Engineer
- Functional safety ISO26262, validating requirements at HiL, ViL
 - Robustness evaluations INCA, MDA, E-Handbook
 - Drivability Calibrations Management with CRETA
- 2020 - 2021 **Elektro Hannemann**, Electrical Engineer and Construction Management
- Network technology, detailed installation, fire alarm technology

EDUCATION

- 2023 **Institute for Executives**, Certified Technical Business Economist (3-month course)
- Accounting, Human Resources Management, Project Management
- 2021 - 2023 **Rheinische Akademie**, State-Certified Technician in Electrical Engineering/Bachelor Professional
- Electrical and electronic systems, information technology systems
 - Project: "Realization of an autonomous model car using neural networks" Grade: 1.2
- 2016- 2020 **Elektro Hannemann**, apprenticeship as electronics technician for energy and building technology
- Fault diagnosis and troubleshooting in electrical systems and DGUV V3 testing
 - Planning and implementation of electrotechnical projects
- 2014-2016 **B.I.B**, Apprenticeship as IT Specialist for Application Development
- Application development and game design
 - SQL Database and Web Development

TRAINING

- 2024 **EPLAN**, 1 Week
- Compliance with standards, quality assurance and automation of evaluations
- 2024 **ETAS INCA / MDA**, 2 Days
- Connection to ECUs, loading, editing, saving calibration data
 - Create experiments, perform measurements, analyse and visualize measurement data
 - Creation of layouts, data filtering / manipulation
- 2024 **Functional Safety ISO26262**, 2 Days
- Introduction to Security Management Tools and V-Model
 - Security analyses such as FMEA and HARA
- 2023 **FuP high-voltage vehicle 1E, expert for high-voltage systems 2C**
- Practical exercises on the HV system
- 2023 **Measurement course**, ½ Year
- Control technology characteristic curve recording of positioning/jumping method with the help of the oscilloscope
 - Continuous/Non-Continuous and Two-Point Controllers
- 2023 **ADAC-/ Track -Training**, 2 Days
- Controlled Breakout and Vehicle Control
 - Practical exercises on driving dynamics and safety
- 2022 **Cambridge Business English**, ½ Year
- C1 capable of effective communication in professional contexts

Competencies & Interests

- Languages • German (native), English (fluent), Chinese (beginner)
- Technology • Autonomous driving, automation, Python, MRS Dev, C, C++, C#, EPLAN, ASCET, TB², Tableau, BigQuery, looker studio, EAGLE, Inventor