

APPLICATION

Thomas Hetfeld

Electrical Engineer × Computer Scientist × Quality Engineer

SPECULATIVE APPLICATION AS

Quality Engineer

More than 20 years of electrical engineering, computer science and quality management: systematic root cause analysis, process optimisation and robust structures at the interface between manufacturing, engineering and IT.

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DATE OF BIRTH

17 May 1982 in Aachen

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Electrical Engineer × Computer Scientist × Quality Engineer

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// PROFILE

Electrical engineering as the foundation, computer science as the next step, quality management as the common thread: more than 20 years of experience in industrial manufacturing and machine building – from maintenance and fault clearance through the worldwide commissioning and qualification of coating and ultrasonic testing systems to working as a quality engineer. Focus areas: systematic root cause analysis, process optimisation, software development in C#/.NET as well as quality and information security management to ISO 9001 and ISO/IEC 27001.

// PROFESSIONAL CAREER

08/2023 – present **Quality Engineer in quality assurance for ultrasonic technologies**

Baker Hughes Digital Solutions GmbH, Hürth

- Analysing quality problems and resolving them for the long term
- Preparing, conducting and supporting audits
- Developing and implementing continuous improvements
- Creating and optimising processes and workflows
- Coordinating between quality, engineering, test floor and production

08/2013 – 07/2023 **Electrical engineering technician on the test floor for ultrasonic testing systems**

Baker Hughes Digital Solutions GmbH, Hürth

- Commissioning (in-house and worldwide)
- Fault finding
- PC administration
- Process optimisation
- Programming
- QM documentation

11/2009 – 05/2013 **Electrical engineering technician for commissioning and qualification of MOCVD coating systems in prototype construction**

Aixtron SE, Herzogenrath

- Assembly
- Fault finding
- Process optimisation
- Programming
- QM documentation
- Commissioning of robotic systems
- Acceptance of system components at contract partners
- Technical coordination with quality and engineering

10/2006 – 08/2009 **Electrical engineering technician for commissioning and qualification of PVD and CVD coating systems**

CemeCon AG, Würselen

- Fault finding
- PC administration
- Programming
- QM documentation
- Training of employees

02/2002 - 08/2004 Shift electronics technician for maintenance and fault clearance in industrial glass production

Saint-Gobain Sekurit, Herzogenrath

- Shift coordinator
- Team spokesperson

// EDUCATION & DEGREE

05/2019 - 01/2025 Bachelor of Science (B.Sc.) Computer Science

IU International University of Applied Sciences

Thesis: “Wireless sensor networks for environmental monitoring: new technologies and current challenges”

09/2004 - 06/2006 State-certified Electrical Engineering Technician (Staatlich geprüfter Elektrotechniker)

Berufskolleg für Gestaltung und Technik der Stadt Aachen

Specialisation: data processing technology

08/1998 – 02/2002 Apprenticeship as Industrial Electronics Technician (Industriielektroniker)

Saint Gobain Sekurit, Herzogenrath

Field: production technology

// FURTHER TRAINING

05/2026 Information Security Foundation based on
ISO/IEC 27001
EXIN

02/2025 Professional Scrum Master 1 (PSM 1)
Scrum.org

01/2018 C# Complete
GFU Cyrus AG

01/2017 ASP.NET WebForms Complete
GFU Cyrus AG

06/2016 Commissioning of KUKA robots
KUKA Roboter GmbH

07/2014 Introduction to ultrasonic testing – Level 1 (ASNT)
GE Sensing & Inspection Technologies GmbH

09/2013 Live-line working (Arbeiten unter Spannung, AuS)
Technische Akademie Wuppertal e.V.

06/2007 Certified instructor qualification
(Ausbildereignungsprüfung, AdA)
Handwerkskammer Aachen

// IT SKILLS & LANGUAGES

SOFTWARE & DEVELOPMENT

- Programming
C# / .NET / ASP.NET, C++, HTML/CSS,
Assembler
- Relational databases, SQL
- Version control (Git)
- Microsoft Office

SYSTEMS & EQUIPMENT

- Microsoft Windows
Administration, configuration,
operation
- Linux (basic knowledge)
- PLC
Siemens S5/S7, Beckhoff TwinCAT
- ERP systems (SAP, Axapta)

METHODS & LANGUAGES

- Scrum (PSM 1)
- Information security to ISO/IEC 27001
- German (native)
- English (good), technical English (good)

Frechen, date

Thomas Hetfeld