

David Krause

Maintenance Manager & Technical Controller

Industrial Engineer (Dipl.-Wirtschaftsingenieur, FH) · TPM & Maintenance · Asset management · OEE · Investment appraisal



[DE number to follow] david@unifyweave.ai Görlitz / Saxony region · open to local commuting b. 19 May 1984, Dresden

PROFILE

Industrial engineer with over 15 years of hands-on practice in maintenance, TPM and asset management — from maintenance engineer in an iron foundry, through the plant-wide TPM rollout at ZF, to line responsibility for production and maintenance at a CNC company. I keep equipment available and can justify the cost of doing so: OEE analysis, weak-point elimination, preventive maintenance — and the investment appraisal that gets a replacement approved by management.

This combination is rare: technical decisions rarely fail on the technology — they fail on the business case. I deliver both.

PROFESSIONAL EXPERIENCE

11/2025 – present

Author & developer of technical-economic tools

Independent professional projects (UnifyWeave™) · relocated from the EU back to Saxony · available from late 2026

- **Authored a specialist book:** "Cost accounting for manufacturing companies" (134 pages, 22 chapters + 5 appendices) — the full calculation path from a DATEV P&L via overhead sheet and machine-hour rate to the quote price, worked through on a single continuous reference company, validated against DATEV SKR03/04. Publishing 2026; sample chapter on unifyweave.ai.
- **Developed CostEngine v11.7:** desktop software (Python/PySide6) that turns a DATEV P&L into complete cost-center accounting (10-step wizard through to internal activity allocation, 127 automated tests, offline/GDPR-compliant). A personal project demonstrating methodological depth — not a commercial product.
- **Published KostenKompass:** a self-diagnosis tool covering ten quantified costing errors from CNC manufacturing practice; free download on the website.
- **Methodological currency:** consistent application of overhead-sheet, machine-hour-rate and charge-rate methods plus Python-based data processing (Pandas/ETL) throughout these projects.

[Cost accounting](#) · [Overhead/MHR](#) · [ERP/Python](#)

01/2021 – 10/2025

Plant Controller & Cost Calculator

Kunststoff-Technik GmbH · Dresden · CNC machining

- **Overhead sheet & machine-hour rates** across ~20 cost centers; full-cost calculation of production orders.
- Annual budgeting and monthly plan-actual analysis with variance commentary directly to management.
- **International account management** for the Körber Technologies Group (DE/HU/MY): doubled revenue at Körber Hungary (Seidenader) in 2 years via large-format production (guide rails >2000 mm); built up the Malaysia business (KTEMY) from 0 to >€100k annual volume in 18 months via PCD milling strategies.
- Technical quotation and post-calculation (machining, forming, surface technology); ERP data integrity (SelectLine).

05/2015 – 12/2020

CNC Production Manager, Maintenance & Plant Controlling

Kunststoff-Technik GmbH · Dresden · from 01/2017 (project engineer before)

- **Built the company's first full-cost accounting** including the first overhead sheet from scratch — the foundation of the machine-hour-rate models still in use today.
- **Investment controlling:** profitability calculation for a CNC gantry milling machine; comparison of alternative manufacturing methods.
- Technical and disciplinary lead of CNC turning; responsible for OEE, quality and on-time delivery.
- Strategic purchasing: tools and services; price negotiations (incl. Walter, Sandvik).

Overhead setup · Investment controlling · Production lead

03/2011 – 04/2015

Project Engineer & TPM Group Leader (from 07/2012)

ZF Gusstechnologie GmbH · Nuremberg · die casting / automotive

- **Porsche gearbox housings:** quality and productivity improvements across foundry and machining; deputy foundry group leader (Hall 1) incl. leading the daily production meetings.
- **TPM rollout:** developed a plant-specific TPM concept and led its plant-wide implementation in the die-casting business unit; commissioning of new production systems to project schedule.
- **Equipment economics:** OEE/KPI analyses and profitability calculations (ROI / NPV); process and weak-point analyses on die-casting machines incl. fault diagnosis and repair control.

TPM · OEE / KPI · ROI / NPV · SAP-PM

06/2010 – 11/2010

Maintenance Engineer · Foundry

Ortrander Eisenhütte GmbH · Ortrand

- Maintenance engineering, iron foundry (career entry): quotation comparisons for measuring machines, scaffolding plan for a major repair, temperature/wear analyses on motors.

EDUCATION

Industrial Engineering Diploma (FH) · Production Management

09/2005 – 12/2009

Hochschule Lausitz / BTU Cottbus-Senftenberg · grade 1.9 (German scale)

Diploma thesis (1.3): optimal maintenance strategies based on lifetime distributions.

Internship semester · light-metal foundry (OEE analysis / TPM)

09/2007 – 03/2008

BMW Group AG · Landshut

University entrance qualification (Abitur) · grade 2.9

08/2000 – 07/2003

Vocational school center for construction and engineering · Dresden

SKILLS & COMPETENCIES

Maintenance / technical: TPM design & rollout · preventive maintenance · OEE/KPI analysis · fault diagnosis · asset management & replacement investment (ROI / NPV / replacement value) · commissioning

ERP / Software: SAP-PM · MS Dynamics AX · SelectLine · Excel (Power Query, VBA) · Python (Pandas, ETL) · maintenance & cost data analytics

Commercial: Full costing · BAB · machine-hour rates · maintenance budgeting · quotation & post-costing · technical purchasing

Languages & other: German (native) · English (C1, fluent) · driving licence cat. B · technically minded (classic-car restoration)