

ADRIAN IONUȚ IACOB

Senior Process Engineer · Manufacturing · Automotive & Industrial Electronics



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8+ YEARS

PROCESS ENGINEERING

42% → 97%

OEE LINE LIFT, 24/7

€100k+/yr

PER-PROJECT SAVINGS

C1 ENGLISH

DAILY WORKING LANGUAGE

PROFILE

Process engineer, 8+ years in automotive, electronics and chemical manufacturing — Tenneco, Bosch, Continental and BAT. Most of my work is on the shopfloor: equipment parameters, troubleshooting, training operators, keeping lines stable in serial production. I've taken several lines through ramp-up and relocation, and contributed to projects with cost reductions of over €100,000 per year. Hands-on with dispensing, conformal coating (CNC plus UV-curing), AOI, Cognex vision systems, MES integration and PFMEA. I also use AI tools day-to-day for documentation and small automation tasks. Before engineering I worked as a firefighter NCO — that's where I learned to stay focused under pressure and lead a small team when things go wrong.

CORE COMPETENCIES

Process Engineering & NPI

Line commissioning & relocation
Cycle time & OEE optimization
Lean / Kaizen / 5S / Six Sigma
Dispensing & conformal coating

Quality & Risk Tools

PFMEA contribution & maintenance
IATF 16949, ISO 9001, ISO 14001
SPC, Cmk / Cgk / Cpk studies
Root Cause Analysis, 6W2H, 5 Why's

Manufacturing Systems

SAP (PM, MM, QM modules)
MES integration & traceability
Cognex vision, AOI, laser systems
AI-assisted process automation

PROFESSIONAL EXPERIENCE

Expert Process Engineer | Tenneco — Ploiești, Romania

Mar 2025 – Present

Brake pad manufacturing — global Tier 1 automotive supplier.

- ▶ **Relocated a German line and ramped up new products** — handled commissioning, parameterization and ramp-up. Built operator standards, preventive maintenance manuals and stocked critical spare parts in SAP. Together with the NPI engineering team, industrialized **20+ new brake pad products** in the last **12 months** from drawing-stage to serial production.
- ▶ **Cognex vision system on grinding to scorching transfer** — led the in-house team that integrated a camera to detect chamfer presence and orientation on brake pads exiting the grinder. Direct response to a customer complaint about reversed chamfers; the existing line had no detection capability for this defect mode. Reduced scrap and downtime by addressing a customer visible quality issue and updating the related documentation.
- ▶ **Powder thickness laser measurement after electrostatic paint cabin** — **~€100,000/year savings per line**, across all 7 lines. Proposed and implemented a laser based measurement system on the conveyor between the paint cabin and the curing oven. Replaced manual leptoskop checks at line end with inline rejection right after coating, allowing recovery and reprocessing of out-of-spec parts before curing. Savings came from less downtime, shorter changeovers, lower scrap, and fewer customer complaints (thick/thin/unpainted parts).
- ▶ **Daily process support** — process standardization, equipment specification, preventive maintenance design and training of production teams on assigned equipment. Regular interface with Quality and Maintenance to keep the critical device list aligned with reality on the shopfloor.

Process Engineer (Chemical Processes) | Robert Bosch SRL — Cluj-Napoca, Romania Jul 2021 – Feb 2025

Automotive electronics — chemical dispensing & coating processes on PCBs in ESD environment.

- ▶ **Plant representative at Bosch global automotive process conferences** — for 3–4 days per year I shared experience on my process area with sister plants worldwide, exchanged best practices and brought new ideas back to Cluj. Built working relationships with global process experts for cross-plant problem solving.
- ▶ **New high-throughput technology rollout — cycle time 50s → 15s per part.** Participated in the implementation of a major process improvement within my equipment area. Significant increase in line output, with simpler preventive and corrective maintenance as a side benefit.
- ▶ **Pre-acceptance and adaptation of relocated EU line** — involved from the pre-acceptance stage of a production line relocated from another EU member state. Re-parameterized and adapted the equipment for the product mix newly assigned in Cluj.
- ▶ **Greenfield line for next-generation automotive products** — responsible for my equipment scope during the installation of a new production line for products used in future vehicle platforms for VW, Audi, BMW, Renault, the Stellantis group, BYD and others. Carried the work from drawing stage industrialization through to finished product within customer specification: line standards, preventive and corrective maintenance plans, spare part equivalence lists and stock level setup in SAP.
- ▶ **Maintenance workshop upgrade — pressurized fluid cleaning rig — 2 hours → 15 minutes** on the cleaning portion of corrective maintenance. Implemented a new cleaning device using process-specific solvents to clean dispensing pumps before replacing seals, gaskets and wear parts.
- ▶ **Daily operations** — SAP for spare/wear parts orders, control plans, work instructions and SAP part lifecycle tracking. SPC, capability studies (Cmk/Cgk/Cpk), root-cause analysis using 5 Why's & Ishikawa. Close coordination with maintenance and quality teams across the introduction of new equipment and Industry 4.0 systems.

Process Lead | British American Tobacco — Ploiești, Romania

Jun 2020 – Jul 2021

FMCG — high-volume cigarette manufacturing, ISO 9001 / ISO 14001 / GMP.

- ▶ **Lean Administration deployment** — participated in the plant wide rollout of a Lean Administration framework, adapting standard work, visual management and reporting routine to the manufacturing context.
- ▶ **Barcode scanning retrofit on legacy lines** — contributed to bringing older production lines up to current traceability standards by implementing barcode scanning systems they were not originally designed with.
- ▶ **Shopfloor team coordination** — led a team of operators and technicians, owning Daily Management Systems (Centerline, Change-Over, Waste, Change Management). Coached teams on autonomous line problem solving — Initial Problem Solving, Unified Problem Solving, 6W2H, 5 Why's.
- ▶ **KPI tracking and improvement** — tracked MTBF, MTTR, downtime, defect and waste KPIs; led RCA on deviations and drove corrective and preventive actions with the quality team.

Production Process Engineer | Continental Automotive Systems — Sibiu, Romania Sep 2017 – Jun 2020

Automotive electronics — PCB-based products in ESD-controlled environment: soldering, AOI, laser cleaning and welding, dispensing, conformal coating, optics.

- ▶ **Newly-commissioned line, OEE 42% → 97% across 4 shifts, 24/7.** Took over a freshly commissioned production line and brought it to a steady 97% OEE within months. The improvement came from HMI recipe creation per product, sensor and axis adjustments, pneumatic and electro-pneumatic fine-tuning, operator parameter sheets, MES traceability parameters and small equipment adjustments tested directly in production.
- ▶ **AlMg housing in-house cleaning line — €100,000/year saving, then scaled.** Proposed the idea: housings were being scrapped at assembly because of thermal-paste contamination, even though the parts were technologically sound. Designed (with the team) an automated cleaning line that re-introduced the housings into production. Internalizing the cleaning step from the supplier — where it was being paid for in raw-material cost — saved €100,000/year on this single project. The approach was later extended to housings on other products.
- ▶ **Level-2 24/7 support across multiple lines** — shared rotating L2 coverage with three colleagues, 7 days/month, providing remote and on-site support for breakdowns, stoppages and downtime events beyond my own line. Cross-process exposure during these rotations included selective soldering, AOI, optics processes and automated transport systems. Used repeated failure patterns to propose additional sensors and equipment modifications that the original line design had missed — with big impact on output, scrap reduction and rework.

- ▶ **Daily management routine** — represented the process function in the morning daily standup meeting alongside peers from connected departments — reviewing overnight shift 2 & 3 issues, root-cause status and corrective / preventive direction. Conducted entirely in English with the international team.
- ▶ **Process scope (owned)** — automatic screwing, automatic soldering, automatic optical inspection (AOI), laser engraving and laser cleaning, optics processes, automated transport systems, dispensing and coating chemical processes — including a CNC-controlled conformal coating cell that dispensed protective resin on PCB components followed by UV curing. Several stations on my scope had integrated robotic arms operated through the equipment HMI.

Water Loss Engineer | Hidro Prahova SA — Ploiești, Romania

Dec 2016 – Sep 2017

- ▶ Managed water losses on the distribution network. Pin-pointed pipe breaks via pressure and flow measurement, calibrated instrumentation and proposed automation upgrades.

IT Administrator & Technical Engineer | APLAST SRL / Casystech SRL — Romania *Aug 2012 – Oct 2015*

- ▶ IT administration, security systems, technical support — hardware, networks, on-site troubleshooting.

Squad Leader, Firefighting Crew | Inspectorate for Emergency Situations, Bucharest *Aug 2009 – Jul 2012*

- ▶ NCO in an active firefighting unit, leading a small squad. Responsible for equipment readiness, training, and execution of standard procedures during interventions. The discipline from this role still helps me today on the production floor, especially during shift handovers and high-pressure events.

EDUCATION

Master's Degree — Technology for Transport, Storage and Distribution of Oil & Gas

2014 – 2016

Petrol-Gaze University, Ploiești · EQF Level 7

Bachelor's Degree — Electrical and Mechanical Engineering

2009 – 2014

Petrol-Gaze University, Ploiești · Automation & Applied Sciences · EQF Level 6

NCO School of Firefighting and Civil Protection

2007 – 2009

Boldești-Scăieni · EQF Level 5

LANGUAGES

ROMANIAN

Native speaker

ENGLISH — C1

Daily working language since 2017 — Continental morning meetings, BAT international management, Bosch global conferences, EU line acceptance trips.

CERTIFICATIONS & TECHNICAL TOOLKIT

- ▶ ISCIR — RVT Certificate (technical verification of boilers and burners post-installation)
- ▶ Health & Safety Inspector — 80-hour certificate, HSEQ Consulting SRL
- ▶ Health & Safety Technician — Law 420/2003 equivalence (military education institutions)

Software & Tools: SAP (PM, MM, QM) · MES platforms · Cognex VisionPro · Keyence Vision · Microsoft Excel (advanced — Loss Allocation tools, action-plan modelling) · HMI configuration tools across multiple OEM platforms · AI tools for process documentation and automation workflows.

Driving licence: A, B, BE, C, CE.

References available on request.