

Built in the factory. Designed for what's next.

An executive profile built around the pattern behind the roles: Lean discipline, engineering judgement, operational ownership and global manufacturing innovation.

A career that kept moving closer to the complete production system.

START · LEAN

Lean Manufacturing Engineer

Flow, waste, standard work, cycle time, 5S, kaizen and the discipline of observing the real process before prescribing technology.

BUILD · ENGINEERING

Product Engineering + Production responsibility

Product constraints, manufacturability and the reality that a technically elegant choice still has to survive production.

EVIDENCE · QUALITY

Supplier Quality & Quality Assurance

Evidence, prevention, FMEA, root cause and the difference between fixing a problem and building a system that makes recurrence harder.

SYSTEM · PROCESS

Process Engineering · Quality & Continuous Improvement

The bridge between design, process capability, reliability and measurable operational performance.

OWNERSHIP · MAINTENANCE

Manufacturing Unit Italy Maintenance Manager

Uptime, ownership, supportability and what technology looks like after the project team leaves.

2024-today

Global Process Competence Center Manager

The unit of thinking becomes global: reusable architectures, factory competence, technology scouting and the second-factory test.

The roles changed. The questions accumulated.

LEAN**01**

Is the process stable enough to improve?

Observe before automating. Make losses visible. Reduce variation before adding complexity.

ENGINEERING**02**

Can it be manufactured, maintained and changed?

Technical possibility is only one constraint among many.

QUALITY**03**

What evidence would prove this is better?

Standards, traceability, prevention and repeatability matter more than heroic recovery.

MAINTENANCE**04**

Who owns it on a bad Tuesday night?

Supportability, diagnostics, skills and spares are part of the design.

GLOBAL**05**

Will the second factory want it?

A pilot is not a capability until another site can adopt it with less friction.

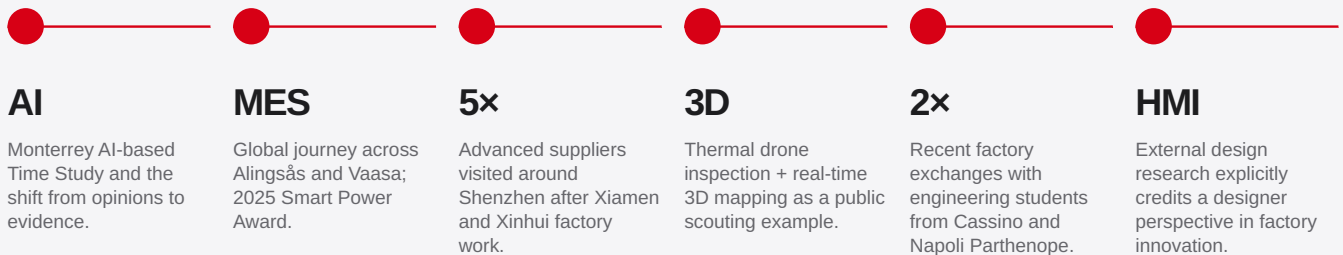
HUMAN-CENTERED**06**

What capability does this create for people?

Safety, cognition, learning and decision quality belong in the ROI conversation.

Public work leaves a trail. The pattern matters more than the individual technologies.

The recurring move is from factory observation to evidence, then from evidence to a repeatable operating model.



The signal is not “uses new technology.”

It is “connects technology to an operating problem, then asks how it can scale.”

2

peer-reviewed studies in real industrial environments.

The exoskeleton work is useful not because wearable robotics is fashionable, but because it shows a repeatable way to evaluate industrial technology: in real work, with experienced workers, over enough time to expose friction and side effects.

APPLIED ERGONOMICS · 2022

In-field first.

3

experimental
sessions

2

in-field
workstations

1

realistic
simulation

Shoulder muscular activity and perceived effort decreased across subjects and sessions; participants reported high usability and acceptance.

IEEE THMS · 2025

Stay long enough for novelty to disappear.

6

months

6

workers

30%

up to reduction in
shoulder muscle
activity

No clinical side effects were observed; effort-perception metrics decreased by up to 2.4 points out of 10.

Emerging technology is evaluated as an operating system, not a feature list.



Safety

Fail-safe behaviour, interaction risk, foreseeable misuse.



Evidence

Realistic tests and proof from comparable environments.



Reliability

Performance after repeated cycles, not only a scripted demo.



Cybersecurity

Secure configuration, patchability and lifecycle exposure.



Completeness

Interfaces, logging, supervision and error handling.



Maintainability

Diagnostics, spares, skills and support model.



Compatibility

Standards, existing systems and integration effort.



Scalability

Templates, modularity and economics at the next site.



Adoption

Training burden, usability and whether people see the benefit.

A pilot proves that something can work.

The second factory proves that the organization can repeat it.

Technology should **amplify people**. Not replace them.

Industrial AI is most useful when it changes the **quality of the questions** engineers can ask.

Scale is not deployment count. It is the ability to make the **next deployment easier** than the first.

Industrial innovation, with a point of view.

FOCUS

Human-centered manufacturing
Industrial AI & computer vision
Digital manufacturing & MES
Physical AI & humanoid robotics
Innovation at scale

PUBLIC TRAIL

Two peer-reviewed industrial studies.
Public manufacturing AI and MES work.
Technology scouting across robotics and sensing.
Industry-university exchange.
Thought leadership on human-centered manufacturing and pilot-to-scale execution.



WEBSITE

silveriotaglione.com



LINKEDIN

Public
professional
activity



RESEARCH

DBLP author
profile