



● Currently: Liaison and Maintenance Engineer
@ Fotokite AG, Zurich, Switzerland

Contact

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Expertise

Mechanical & Product Design

- Concept Development
- 3D CAD
- Mechanical Design
- DFM/DFA
- Serviceability
- Prototyping
- Design Validation
- Robust Design

Quality & Reliability

- Quality Assurance
- RCA
- CAPA
- Failure Investigation
- First-Pass Yield
- Verification & Effectiveness Monitoring
- Quality Improvement
- Data Analysis
- Production Problem Solving

Manufacturing & Industrialisation

- Assembly Processes
- Works Instructions
- Production Support
- Distributor Training
- Troubleshooting
- Design Validation
- DFM/DFA
- Fleet Repair & Maintenance

Product & UX

- Product Strategy
- UX/UI
- Information Design
- Rapid Prototyping
- User-Centered Design
- Cross-Functional Product Development
- Systems Thinking

Tools

- Solidworks
- Catia
- OnShape
- Figma
- Whiteboard
- PLM
- Odoo
- Confluence
- MetaBase

Education

HNC Mechanical Design
Bournemouth University (2010)

EASA CS25 Training
Zürich (2018)

Eduardo ‘Eddie’ Maraspin

Senior Mechanical / Product Design Engineer |
Quality & Reliability | Product Development

Senior Mechanical Product Design Engineer with **20+ years’ experience designing, building, troubleshooting and improving complex physical products** across aviation, robotics, autonomous systems, consumer technology and furniture.
Designer’s Eye, Engineer’s Mind: highly structured, hands-on and relentlessly practical, combining creative design thinking with rigorous engineering to find root causes, solve real-world problems and turn better ideas into **robust, manufacturable and repeatable products**.

Professional Experience

Liaison & Maintenance Engineer

Jul 2025 – Present

Fotokite AG • Zürich, CH • www.fotokite.com • Scale Up (44 employees)

Internally promoted after 1-year as an Assembly Drone Operator, I now have a Hands-on engineering role connecting Repairs & Support with Manufacturing, Quality, Operations and Engineering. Responsible for fleet repairs, support, investigating hardware failures, improving production processes and feeding validated field and manufacturing intelligence back into product engineering.

- // Developed and introduced a company-wide **Quality Assurance Process (QAP)** to turn production and field failures into structured, prioritised engineering intelligence.
- // Established a repeatable workflow covering **occurrence reporting, containment, investigation, RCA, CAPA, verification and effectiveness monitoring**.
- // Applied a **structured, evidence-led approach** to hardware troubleshooting, separating symptoms from root causes and ensuring corrective actions are verified rather than assumed to work.
- // Worked directly on the shop floor investigating hardware failures, repairing equipment, identifying recurring problems and implementing practical process improvements.
- // Targeted improvement of production first-pass test yield from approximately **45% toward 80%** through structured failure analysis and process intervention.
- // Identified cases where camera/video failures could be resolved through **assembly correction rather than component replacement**, reducing unnecessary repair activity and improving first-pass performance.
- // Introduced a more disciplined connection between **failure data and Engineering priorities**, ensuring recurring problems become design and manufacturing actions rather than repeated repairs.
- // Work closely with engineering and operations teams to validate corrective actions and ensure improvements are practical, manufacturable and repeatable.

Senior Mechanical Engineer/Head of Design

2020 – 2023

Swiss Smyze AG • Zürich, CH • www.smyze.com/en • Start Up (6–8 employees)

Highlight:

Delivered 2 products from concept to market, successfully deployed across 20+ machines Globally and 100+ units in China and Scandinavia

- // **Directed end-to-end hardware development** for automated coffee systems, from concept through to production release
- // **Built and led a core team of 1 internal engineer and 3 external specialists**, coordinating cross-functional delivery
- // **Oversaw a network of 5 key suppliers**, strengthening production readiness and quality control
- // **Defined product strategy** and drove execution using Agile methodologies (Jira), aligning engineering with business goals
- // Partnered with C-level stakeholders (CEO, CTO, CMO) to shape product direction and commercial positioning
- // **Reduced development timelines by 25%** by implementing rapid prototyping and iterative validation cycles
- // **Delivered complete CAD assemblies, technical drawings, and production documentation** for manufacturing scale-up
- // **Conducted supplier audits and resolved quality issues** to maintain production standards
- // Led field testing and user validation, improving product usability and ergonomics

[continued...]

Certifications

Professional in Residence (xMBA) – PiR – Apr 2024

AI Tools, Agile Principles, Business Design, Self-Development, Startup Principles, Legal, Security

Solidworks PDM Administrator – Solid Solutions – May 2023

Vault Management, User Group Management, Metadata & Cards, Views and BOM setup, Workflow, System Maintenance

Professional Experience

Lead Mechanical Engineer

2017 – 2019

SR Technics • Zürich, CH • Corporation (over 1000 employees)

Highlight:

Delivered multiple certified aircraft modifications within tight regulatory and commercial constraints

- // Led delivery of **2 major aircraft projects per year**, valued between **CHF 200K – CHF 2M**
- // **Full project ownership** from concept to completion in a **hybrid engineering and project management role**.
- // Managed Tier 1 supplier selection, customer liaison, budgeting, off-site team coordination, production interface, and certification.
- // Used **agile project management tools** to adapt to fast-changing environments.
- // Appointed Design Review Engineer and nominated signatory under SRTechnics DOH.

Mechanical Design Engineer (Contract)

2016 – 2107

Airbus Defence and Space • Stevenage, UK • Corporation (over 1000 employees)

- // Developed mechanical components for satellite communication systems
- // **Validated a new thermal extraction method**, improving system-level thermal performance
- // Contributed directly to key delivery milestones for both **Communication and Supply modules**
- // Generated assemblies, part models, and production documentation in line with Airbus QA standards

Mechanical Design Engineer (Contract)

2015

Cobham Composites • Stevenage, UK • Corporation (over 1000 employees)

Highlight:

Resolved a **critical manufacturing challenge** involving the composite lay-up of a rear tail section rib, enabling successful production of a complex geometry component

- // Progressed rapidly from Draughtsperson to **ownership of master geometry and critical 3D design structures**
- // Controlled interface definition (ICD) and skeleton geometry for complex aerospace assemblies
- // Developed composite structures using CATIA and FEA in collaboration with stress and manufacturing teams
- // Produced detailed composite lay-up specifications, ensuring compliance with internal and customer standards

Mechanical Design Engineer

2013 – 2014

SR Technics • Zürich, CH • Corporation (over 1000 employees)

- // Delivered certified VIP aircraft interior components under CS25, Airbus, and Boeing standards
- // Developed structural and system modifications including seating, latching, and water systems
- // Authored internal CAD standards documentation adopted across engineering teams
- // Improved PLM workflows using Enovia to align design, production, and certification

Mechanical Design Engineer

2005 – 2013

AIM Aviation Ltd • Bournemouth, UK • Corporation (over 150 employees)

Highlight:

Redesigned seat track connector system, **reducing installation and adjustment time by 50%, and reducing part count by 33%** also achieving a **5x weight reduction** by transitioning from metal to Ultem 2300 polymer components

- // Advanced from Draughtsperson to Design Engineer, taking ownership of premium aircraft interior products
- // Contributed to **20+ major aircraft projects** across **5+ major airline customers**
- // Produced parametric CAD models, surface designs, and manufacturing drawings to BS8888 standards
- // Coordinated across engineering, production, and customer teams to deliver high-quality solutions

Interests

Nishibotsu

2021 – Present

Zürich, CH • www.nishibotsu.com • Just for Fun

My independent design house for handcrafted furniture design.