

CECILIO VALIENTE HERMO Senior Aerospace Engineer | Structures & Certification Expert
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Nationality: Spanish / Permit B (Switzerland)

PROFESSIONAL PROFILE

Senior Aerospace Engineer with 18+ years of experience in the design, certification, and manufacturing support of **Primary Structures** and **VIP/Medical Interiors**. Proven track record in leading engineering teams (Task Management) for major OEMs including **Airbus**, **Pilatus**, and **Beyond Gravity (Ruag Space)**. Expert in bridging the gap between Design and Production, resolving shop-floor non-conformities, and ensuring compliance with **EASA Part 21J** and **CS-23/CS-25** regulations.

CORE COMPETENCIES

- **Engineering Leadership:** Managed full design lifecycles from concept to Critical Design Review (CDR), including budgeting, resource planning, and supplier coordination.
 - **Structural Design:** Expert in **Composites (CFRP)** and **Metallic** structures using **CATIA V5** and **SolidWorks**.
 - **Certification:** Deep knowledge of EASA Part 21J, CS-23, CS-25, and ITAR regulations.
 - **Production Support:** Extensive "Liaison Engineering" experience, resolving NCs (Non-Conformities) and Concessions directly on the Final Assembly Line (FAL).
 - **Tools:** CATIA V5 (Expert), Siemens NX (Familiar), SAP (PLM/ERP), ENOVIA, VPM, MS Project.
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PROFESSIONAL EXPERIENCE

BEYOND GRAVITY (formerly RUAG Space) | Zürich, Switzerland **Senior Design Task Manager**
Nov 2018 – Sep 2024

- Led the mechanical design team for the **Vulcan Centaur Heat Shield** (Composite Structure).
- Managed the full project lifecycle: planning, budgeting, and technical verification (PDR/CDR).
- Coordinated cross-functional teams (Stress, Thermal, Manufacturing) and external suppliers in the USA and Portugal.

- Resolved complex manufacturing non-conformities (NCs), implementing design changes (ECNs) to accelerate production and reduce costs.
- *Key Achievement:* Successfully guided the Heat Shield design from prototype phase to serial production release.

AEROLITE AG | Ennetbürgen, Switzerland Senior Design Engineer Apr 2018 – Nov 2018

- Designed EMS (Emergency Medical System) interiors and secondary structures for the **Pilatus PC-24**.
- Developed metallic brackets, floor fittings, and retention systems compliant with **CS-23** and **EASA Part 21J**.
- Coordinated directly with Pilatus Aircraft to ensure seamless integration of medical equipment into the airframe.

AEROMOBIL S.R.O. | Bratislava, Slovakia Senior Design Engineer (Primary Structure) Jul 2016 – Apr 2018

- Led the design of the **Carbon Fiber (CFRP)** cockpit primary structure for the AeroMobil 4.0 flying car.
- Engineered metallic wing-folding mechanisms and landing gear interfaces.
- Collaborated with aerodynamicists to optimize outer mold lines (OML) while ensuring structural integrity.

SPECIALIST AVIATION SERVICES | Gloucester, UK Senior Design Engineer (Modifications) Feb 2016 – Jun 2016

- Designed mission equipment and medical interiors for **AgustaWestland AW169** helicopters.
- Produced 3D models (SolidWorks) and manufacturing drawings for avionics racks and structural supports.

AIRBUS DEFENCE & SPACE | Portsmouth, UK Senior Mechanical Designer Apr 2015 – Feb 2016

- Designed mechanical mounting interfaces and waveguide routing for telecommunication satellites (SES-14).
- Managed mechanical interfaces in CATIA V5 and ensured "Design for Assembly" (DFA) compliance in clean-room environments.

JET AVIATION (General Dynamics) | Basel, Switzerland Liaison Engineer (Cabinet & Interior) Jun 2011 – Jun 2012

- Provided immediate engineering solutions for **VVIP aircraft completions** (Airbus A319 CJ).
- Handled design deviations and validated repairs under EASA Part 21J/Part 145 regulations directly on the shop floor.

AIRBUS MILITARY | Seville, Spain Senior Engineer (FAL Support) May 2008 – Jun 2011

- Supported the Final Assembly Line (FAL) for the **A400M** program (MSN001-007).
 - Managed Design Query Notes (DQN) and harmonized technical solutions between the design office and production.
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EDUCATION

BEng Aeronautical Engineering (Ingeniero Técnico Aeronáutico)

Universidad Politécnica de Madrid (UPM) - EUITA, Spain | *[Año inicio] – 2006*

CERTIFICATIONS & TRAINING

- **EASA Part 21 Subpart J** – ADSE Consulting
 - **CATIA V5 Methods** – Airbus UK / IBM
 - **SAP Engineering & Concessions** – Airbus France
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LANGUAGES & ADDITIONAL INFO

- **Languages:** English (C2 - Proficient), German (B2), Spanish (Native).
- **Hobbies:** Chess, Hiking, Football, Vipassana Meditation.