

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

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## 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.

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## 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*

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## 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.