

Identificación, perfil y trayectoria profesional

Contenido: Identificación, perfil y trayectoria profesional

Jorge Sánchez-Capuchino Revuelta

Jorge is an Optical Engineer (MSc in Applied Physics, PhD in Optical Engineering) with 25+ years in sequential and non sequential optical design, specification, procurement support, integration, and testing of VIS/IR imaging, non imaging, spectroscopy, and optical calibration systems. In space programs, late changes are expensive, so I focus on early decisions that withstand manufacturing and test. A design is finished when it can be built, aligned, and accepted. I translate requirements into hardware ready optical architectures, with emphasis on early stage design trade offs, tolerancing and STOP analysis, stray light/ghost analysis, and manufacturability to reduce integration and schedule risk, particularly for space systems and other demanding environments.

For 20+ years he has been a permanent staff Optical Engineer at the Instituto de Astrofísica de Canarias (IAC), leading optical developments for large telescopes and instruments. This includes GTC calibration systems and IR spectroscopy, European Solar Telescope optics, adaptive optics facilities and laser guide star systems, and optical payload work for space programs (MetOp and ESA cameras and spectroradiometers, including the optical development of Metimage). My work also covers free space laser communication. Industry experience includes Hewlett Packard (2000 to 2003) and Airbus DS (2015 to 2017).

He is currently Co-Founder & CEO of Sagittal Optics. Sagittal delivers feasibility work and optical architecture trade offs, detailed optical/optomechanical design, tolerancing/STOP analyses, support through manufacturing, test and verification, including prototyping when needed. Company approach emphasizes alignment strategy, tolerance driven robustness, and throughput, and when feasible reducing element count to simplify manufacturing, integration, and verification.

Core strengths

- Sequential & non-sequential optical design, optimization and tolerancing for VIS, NIR, SWIR systems (imaging, non-imaging, spectroscopy, calibration)
- Specs & drawings, manufacturing & metrology, NCR/acceptance
- Achromatic refractive & reflective centered/off-axis systems, VIS/IR spectrographs, laser systems & optical payloads
- Non-sequential stray light/ghost analysis (VIS/IR). Mitigation driven iterations
- Technical leadership and hands on AIV/AIT support in international astronomy and space projects, bridging design, test setups, integration, and verification
- Optical design/engineering consultancy and project execution from feasibility to delivered design package/validated prototype

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