Malcolm Vasquez

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My Key Qualifications

- **11 years in aerospace engineering**, from component qualification at Moog through senior-level aircraft systems ownership at Boeing.
- Technical ownership of aircraft system installations from architecture through certification, production support, and in-service resolution at Boeing.
- Led requirements and verification for a major system installation change: **186 verification points closed before certification test entry**, aligned to FAA Part 25 and DO-160.
- Directed structural and loads assessments using MATLAB, Python, and NASTRAN, cutting open analysis actions **from 23 to 4 before final design review**.
- Supplier engineering focal point at Boeing: reviewed supplier designs, approved technical data packages, and cut technical query turnaround from 10 days to 6.
- Investigations in 8D and FMEA across commercial and spaceflight programs, including an 8D closed in 28 days with no recurrence across 15 shipsets.
- Mentors early-career engineers and leads design reviews, test readiness reviews, and corrective action efforts.

Experience

Senior Aerospace Engineer — Boeing

Jul 2021 – Present · 5 yrs 4 mos

- Owned the requirements and verification strategy for a major aircraft system installation change across design, lab verification, and production release, building the compliance matrix around FAA Part 25 and DO-160 expectations and closing 186 verification points before certification test entry.
- Directed multidisciplinary structural and loads assessments for installation hardware and airframe interfaces, using MATLAB and Python for load post-processing and NASTRAN for finite element evaluation, cutting open analysis actions from 23 to 4 before final design review.
- Served as engineering focal point for supplier-released installation assemblies with recurring documentation and fit issues, instituting a standard review checklist in Teamcenter and weekly closure reviews that cut supplier technical query turnaround from 10 days to 6.
- Led a high-impact nonconformance investigation affecting production installation sequencing, coordinating fault isolation and fishbone review with manufacturing and quality engineering; closed the 8D in 28 days with no recurrence across the next 15 shipsets.
- Mentored 6 early-career engineers on analysis and certification documentation, creating reusable report templates and weekly technical coaching that shortened average review rework from 3 cycles to 2.
- Run cross-functional coordination with systems, manufacturing, quality, supply chain, certification, and flight-test teams, and lead design reviews, test readiness reviews, and corrective action efforts.

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Aerospace Engineer — **Blue Origin**, private aerospace company developing launch vehicles and space systems

Mar 2017 – Jun 2021 · 4 yrs 3 mos

- Owned mechanical design and analysis for flight hardware from concept through qualification support, including development testing and production support for integrated assemblies.
- Led design and analysis updates for a flight hardware assembly following qualification test findings, closing 9 corrective design actions before the next build lot by revising CATIA models, re-running NASTRAN load cases, and releasing changes through controlled workflows.
- Supported root-cause closure on recurring hardware nonconformances during build and integration, applying FMEA-informed failure reviews with manufacturing and quality teams and cutting repeat discrepancies from 6 per quarter to 2.
- Developed Python and MATLAB post-processing scripts for vibration and thermal environmental test data, automating sensor parsing, limit checks, and summary plots to save 12 hours of data reduction per test campaign.

Mechanical Engineer II — Gulfstream Aerospace

Jul 2014 – Feb 2017 · 2 yrs 7 mos

- Released drawing and model updates for aircraft interior installation hardware, completing 31 released revisions across 5 engineering change packages by updating CATIA geometry, incorporating shop feedback, and coordinating release through PLM controls.
- Supported certification documentation for interior hardware changes, submitting 14 compliance artifacts on schedule by compiling analysis summaries, test references, and traceability evidence with senior certification engineers.

Project Engineer — **Moog**, motion control and actuation supplier for aerospace and defense systems

Jul 2012 – Jun 2014 · 1 yr 11 mos

Organized verification evidence for electromechanical component qualification packages, completing 8 qualification document sets for customer submission by tracking required test and analysis artifacts and standardizing report formatting with the test team.

Education

- **Pennsylvania State University** — Bachelor of Science in Aerospace Engineering · 2008 – 2012

Skills

- **CAD & PLM Tools:** CATIA, Teamcenter
- **Analysis & Simulation:** NASTRAN, MATLAB, Python, Fluent
- **Compliance & Methods:** Requirements Management, Validation & Verification, FAA Part 25, DO-160, FMEA, 8D Root-Cause Analysis

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