JESSICA ROMERO

FLIGHT TEST ENGINEER

CONTACT

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SUMMARY

Flight test engineer with 4 years in flight testing of business jets and unmanned aircraft, from test planning through telemetry monitoring and final reports. Installs flight test instrumentation, writes Python and MATLAB data analysis tools, and brings attention to detail to every test card.

SKILLS

- Flight Testing
- Test Planning
- Flight Test Instrumentation
- Telemetry
- Data Acquisition Systems
- Data Analysis
- Python
- MATLAB
- Excel
- Attention to Detail

EDUCATION

Bachelor of Science
06/2022
California Polytechnic State University, San Luis Obispo
San Luis Obispo, CA
Aerospace Engineering

CERTIFICATES

Private Pilot Certificate, Airplane Single-Engine Land
2023
Federal Aviation Administration

EXPERIENCE

Flight Test Engineer 04/2024 - Present
Antelope Valley Flight Research Lancaster, CA
Flight test services company supporting FAA and military certification programs.

- Write test planning documents and cards for **60** flights covering performance, handling qualities and systems.
- Monitor real-time telemetry in the control room, calling limits on an average of 9 test points per flight.
- Reduce flight data with Python and MATLAB, delivering data analysis reports within 5 days of each flight.
- Present test cards, hazards and go/no-go criteria to pilots and test teams before each sortie.

Flight Test Instrumentation Engineer 06/2022 - 03/2024
High Desert Aero Test Mojave, CA
Instrumentation and test support for experimental aircraft.

- Installed flight test instrumentation on 3 aircraft, including 400+ strain gauges and pressure sensors.
- Configured data acquisition systems and telemetry links with 99% data recovery across 120 flights.
- Tracked calibration records in Excel for 1,100 sensors.
- Drafted 15 instrumentation installation drawings and wiring diagrams for FAA conformity inspections.

Flight Test Engineering Intern 06/2021 - 09/2021
Central Coast Aero Labs San Luis Obispo, CA
Summer internship supporting small unmanned aircraft flight tests.

- Collected GPS and air data from 40 small UAS test flights for performance analysis.
- Calibrated 30 airspeed and pressure sensors before each test week.
- Built PowerPoint debrief slides after every flight day for the chief test pilot.