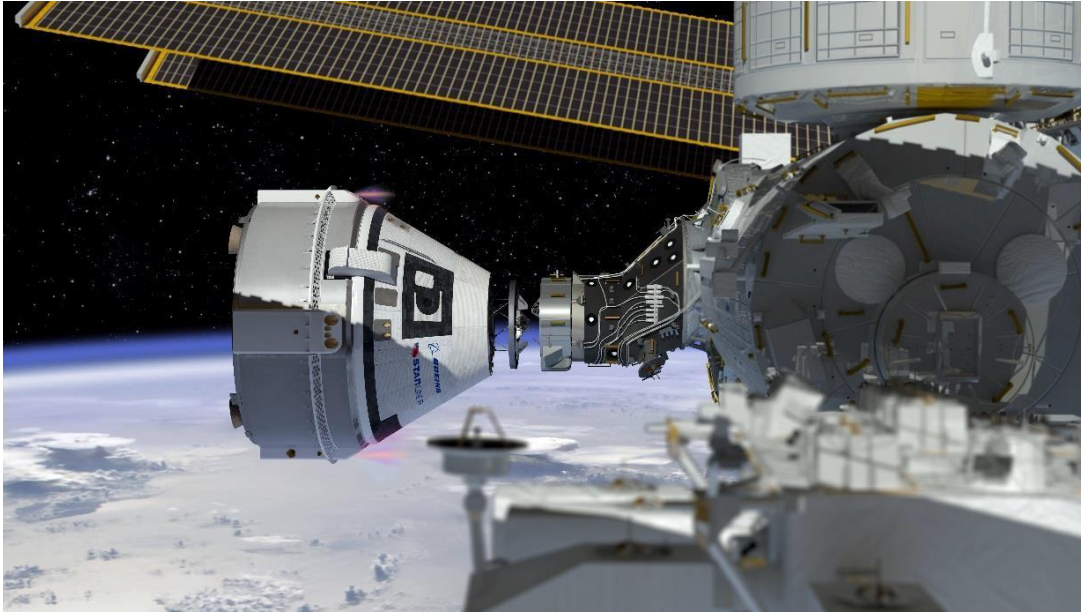

Qual-Pro Corporation Supporting Boeing's
CST-100 Starliner



Qual-Pro Corp. produces a number of mission-critical electronics systems for Boeing's CST-100 Starliner.
Credit: Boeing

Qual-Pro Corporation

Description:

Headquartered in Gardena, CA, Qual-Pro was founded in 1971 in Los Angeles' South Bay to provide turnkey manufacturing services and complete box-level assembly of mission critical electronics for the aerospace industry.

Support for Boeing's CST-100 Starliner Program:

In support of Boeing's Commercial Crew Transportation System (CCTS), called the CST-100 Starliner, Qual Pro produces:

- Vision-based Electro-optical Sensor Tracking Assembly (VESTA)
- NASA Docking System Controller
- Integrated Propulsion Controller

These electronics components will enable the Starliner to fly safely into orbit and autonomously rendezvous and dock to the manned International Space Station.

QUAL-PRO



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General Capabilities:

- A variety of electro-optical sensors transmit data to the VESTA Image Processor (VIP) computer, which then calculates and provides the relative navigation information for proximity operations and docking to the International Space Station. The VIP also provides interfaces to the Starliner flight, display and system management computers.
- The NASA Docking System Controller communicates with Starliner motors, heaters, switchers and a hook position sensor.
- The Integrated Propulsion Controller has control of the Starliner propulsion system valves and drives momentary jet valves. It monitors critical pressure parameters and is the spacecraft's ordnance controller on the crew module. Additionally, it manages the deployment of the capsule's landing airbag system, the pressurization of the service module fuel tanks and the autonomous separation of the service module from the crew module.

Interesting Facts:

- Qual-Pro is an electronic manufacturing service provider serving aerospace, defense, automotive, homeland security, industrial controls, medical devices, industrial and nanotechnology.
- Qual-Pro's Gardena facility features 60,000 square feet of manufacturing space with a dedicated Boeing cell.
- State-of-the-art equipment deployed throughout the Qual-Pro facility allows for quick-turn New Product Introduction (NPI) and high-mix, medium-volume, sustained production.
- Qual-Pro also supports the Boeing-built Space Launch System (SLS), which is NASA's most powerful rocket. The SLS provides a critical heavy-lift launch capability, enabling diverse deep space missions. The exploration class vehicle will launch larger payloads farther into our solar system, faster than ever before possible. Qual-Pro is manufacturing components for the SLS's Combined Controlled System Electronics (CCSE) for the rocket's core stage main engines, including controls, valves, on/off position switches, pressure transducers and resistance temperature devices.

Background:

- Founded 1971
- Privately Owned by Dr JK Hassan
- Approximately 100 employees

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Updated: Aug 2021

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