

# WORK LESS, DO MORE



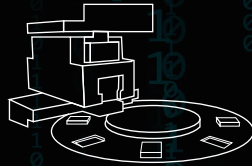
*"It's safe to say that our entire business paradigm would not be achievable without automating traditional-space processes to save on cost and schedule."*

*- Chris Winslett, general manager for Blue Canyon Technologies*

## MANUFACTURING AUTOMATION

# 100%

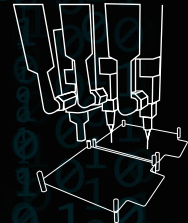
of our electronic components are installed by a surface mount assembly line.



We are testing Selective Compliance Assembly Robot Arms to automate simple, tedious and recurring mechanical operations, freeing up technicians for problem solving and collaboration.



Our torque rods have a fully automated winding operation that reduces technician labor and ensures repeatable performance across built units.



Printed Wiring Assemblies (PWA) are routed through automated masking, staking, and a conformal coat process which removes nearly all touch hours from what was a full-time, hands-on operation.

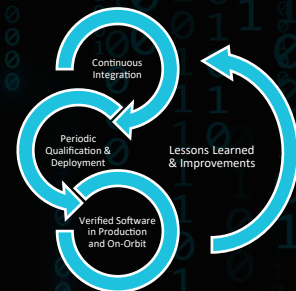
## TEST AUTOMATION



After assembly, our PWA designs incorporate the proper test points to allow usage of flying probe machines for a totally hands-off electrical checkout test.

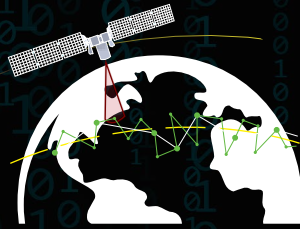


Blue Canyon has designed and utilized multi-system racks which allow a single technician to test multiple pieces of hardware simultaneously at one station.



Our guidance and navigation software undergoes automated nightly software-in-the-loop and hardware-in-the-loop regression testing to verify functionality.

## IN-FLIGHT & OPERATIONS AUTOMATION



Our **Optimal Attitude Trajectory System (OATS)** autonomously calculates and executes optimal attitude paths that provide the minimum possible slew-settle time, allowing less time spent on maneuvering and more time generating data.



Blue Canyon's Mission Operations team uses a cloud-based operations platform, featuring fully automated contact scheduling, state-of-health monitoring, nominal and fault recovery commanding, data delivery and more.

## BUSINESS INTELLIGENCE

Blue Canyon's databases and reporting architecture utilize structured query language (SQL) and Power BI automation, allowing for the most current metrics without relying on tedious and error-prone manual updates.

