

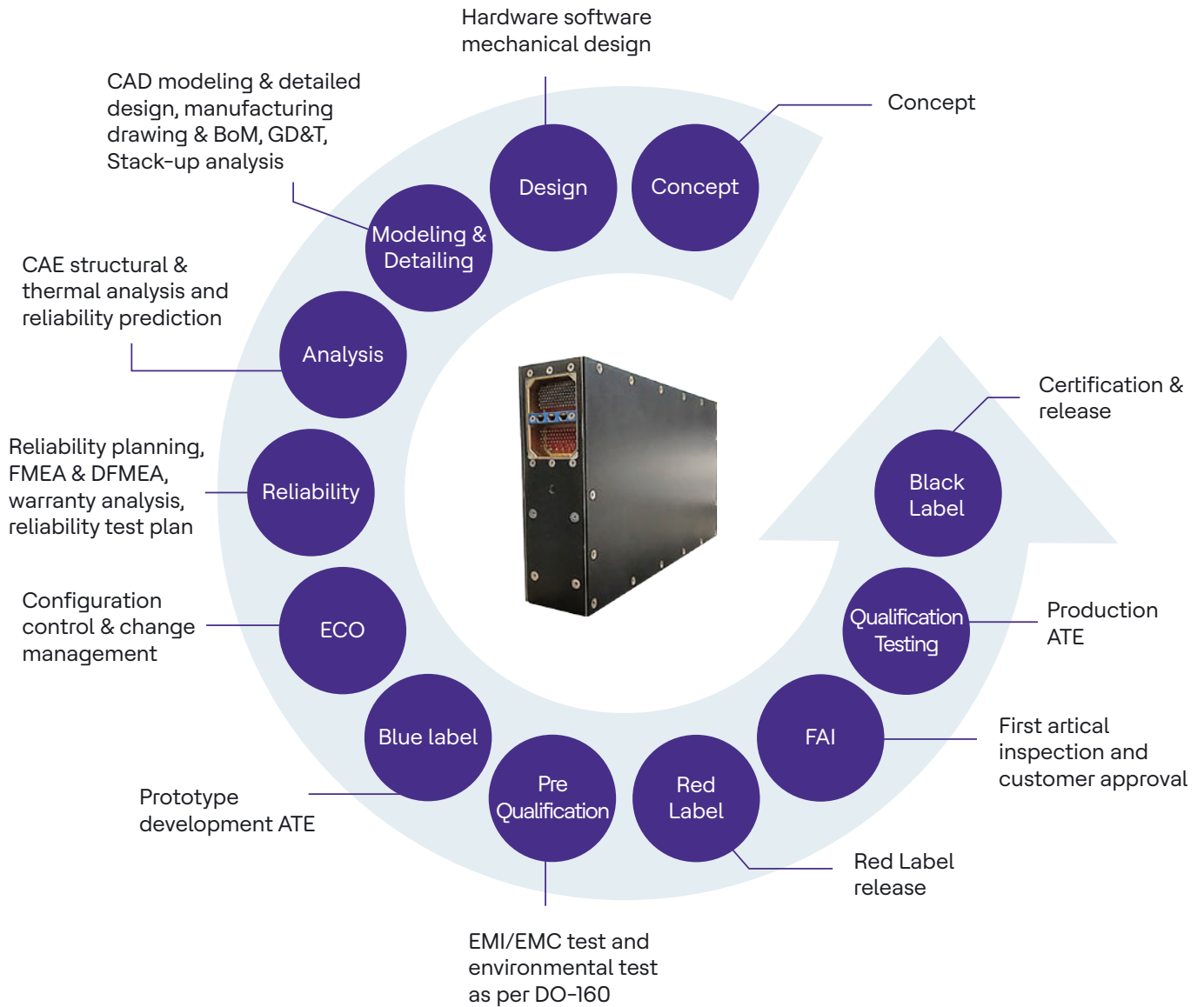
Design to Build Services

Accelerating next-gen
aircraft development



Services across the product design lifecycle

HCLTech's design and mechanical engineering services cater to most industry verticals, with 7,000+ engineers serving OEMs, Tier-1s, and Tier-2s. With 1,800 engineers focused on aerospace and defense clientele, we participated in 1,000+ projects including 100 end-to-end product design, build, and transfer programs. HCLTech has a host of productized solutions created by SMEs from mechanical, digital and supply chain domains.



Success stories cementing our expertise



Design to manufacture Auxiliary Fuel Control Unit

Scope/ Problem Statement

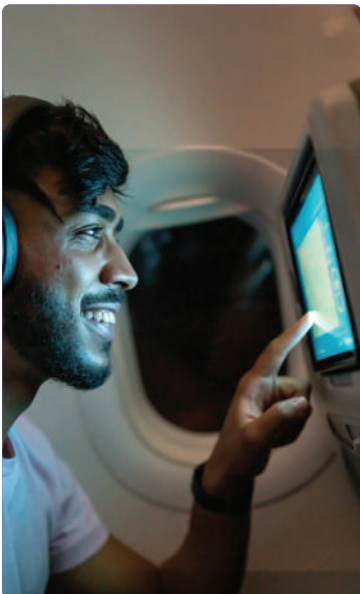
Design & development (HW, SW, mechanical enclosure, ATE), prototype, verification and validation, qualification, black label product release

Solution

- Field software upgrades supported by maintenance crew
- Established base product platform multiple aircraft programs
- DO-178B Level C, DO-160 compliance
- Developed test automation frameworks test automation frameworks

Business impact

- Over 80% offshore and less than 20% Nearshore
- Substantial savings and better control without compromising efficiency
- Predictable process minimizing the risk of transition



Media Player Unit (MPU) for Inflight Entertainment

Scope/ Problem Statement

Complete product development (HW, SW, mechanical, compliance testing, POC, POD, POM build and program management

Solution

- Design for cost & design for low power
- Ability to accept and play inputs from passenger mobile devices
- Hardware design to support different display sizes and seat mount, and control panel
- Easy to install and repair the unit with innovative QRM (Quick Release Mechanism)

Business impact

- Accelerated product development (60% lesser time)
- Market share gain, higher customer satisfaction ratings, improved usability



Android Handset for Inflight Entertainment

Scope/ Problem Statement

Turnkey project responsibilities including market research, concept design, product design, test, document, prototype, certify for compliance (DO-254, DO-178B Level E and DO-160F) and supply the products with multiple variants support

Solution

- Supports VoIP telephony, wireless 802.11 & BT for wireless mode, ethernet connection, connectivity through available sub-networks
- Different mounting and power options, Power through Ethernet (PoE) and DC bus, battery for wireless version with DC terminal for charging
- Design integrity support during development of fullyfunctional prototypes and usability testing

Business impact

- Accelerated product
Converged expertise from multiple industrial vertical teams and partners (Telecom, Wireless & Android COE, Consumer Electronics and Aero – IFE)
- One stop shop for complete end-to-end product engineering service

HCLTech | Supercharging Progress™

HCLTech is a global technology company, home to 225,900+ people across 60 countries, delivering industry-leading capabilities centered around digital, engineering and cloud, powered by a broad portfolio of technology services and products. We work with clients across all major verticals, providing industry solutions for Financial Services, Manufacturing, Life Sciences and Healthcare, Technology and Services, Telecom and Media, Retail and CPG, and Public Services. Consolidated revenues as of 12 months ending March 2023 totaled \$12.6 billion. To learn how we can supercharge progress for you, visit hcltech.com

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