

SOFTWARE ENGINEERING SERVICES

Meeting your specifications while surpassing your expectations



Software Development

When it comes to custom software, embedded controls, machine interface, or automation, our software development experts provide you with exactly the level of support you require by us, in-house or contracted labor at your facility.

We design, program, verify, and integrate real-time software for use in automation, avionics, CAD systems, safety systems, robotics and weapons systems, and numerous other applications.

By combining our development and verification services, you benefit from a **Complete Lifecycle Solution**.

- » Embedded Firmware Development
- » Software development in many technologies, including:
 - › C/C++, Assembly
 - › Ada, LabVIEW, Perl, Python
 - › SQL, Ruby, Qt
 - › Freescale/NXP, ARM, Renesas
 - › WCF, WPF
 - › Xamarin, Mono, XAML
 - › Proprietary RTOS
 - › Embedded Linux
 - › Android, IOS
 - › TCP-based protocols, CAN, Bluetooth
 - › Many More

Software IV&V Services

For over 30 years, General Digital has provided IV&V services for FAA and FDA certifications—and never once had a submission rejected. Auditors praise our clear, concise test reports that easily outline 100% independent coverage to requirements. This means they can verify that all product functions are performed accurately, and that all possible inputs and outputs have been thoroughly vetted to account for any plausible scenario in the field.

When you work with General Digital, you can have confidence that your test reports will withstand regulatory scrutiny—every time.

Serving Safety-Critical Markets, including:

- » Avionics/Military
- » Medical
- » Transportation
- » Industrial
- » Cybersecurity Assessment & Mitigation

Our Process

- » Requirements Development
- » Test Planning and Execution
- » Project Coordination
- » Discrepancy Resolution
- » Results Reporting

Our Rich Heritage

For nearly 50 years, General Digital Software Engineering Services has maintained a reputation for meeting our customers' demands with accurate, on time, and cost-efficient software services. Let us demonstrate how we save you valuable engineering time, increase efficiency and provide you with third-party objectivity to improve your bottom line.

Client Sampling

- » Airbus
- » Boeing
- » Collins Aerospace
- » Draper Laboratories
- » Ford Motor Company
- » General Motors
- » Gerber Scientific
- » Girgis Medical
- » Otis Elevator
- » Pratt & Whitney
- » Raytheon Technologies
- » Rolls-Royce
- » Sikorsky
- » Triumph Engine Control Systems

Our Experience

- » Avionics/Autonomous Vehicles
- » Power/Energy
- » Medical Devices
- » PLC/Automation
- » Manufacturing Automation
- » Machine Interface Systems
- » Custom Display Controllers
- » Embedded Systems Development
- » Remote System Monitoring
- » Embedded Linux

Codes & ID Numbers

CAGE 1JA77

DUNS 06-551-9563

UEID DWMEGPGHBY5

DDTC Registered

PSC 7010, 7021, 7025

SAM/CCR Registered

NAICS 541511, 541512, 541519

Corporate Structure SBA Small Business Concern

Compliance Standards

Quality Management

AS9100D & ISO 9001:2015 QMS Certified

Avionics Compliance

RTCA DO-178, DO-326, DO-254; IAQG AS9100

Medical Compliance

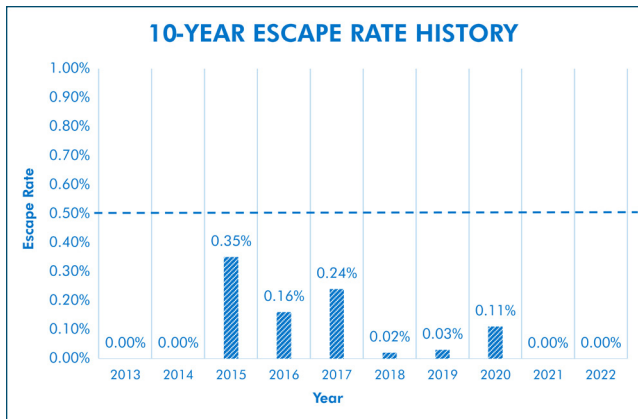
IEC 62304; ISO 13485; CFR 820.30; CE/MDR FDA 510(k) Premarket Notifications

Industrial Compliance

IEC 61508, 61131

Transportation Compliance

IEC 62279, 61508; ISO 26262



The dotted line represents General Digital's AS9100D goal of maintaining less than 0.5% escapes annually.

General Digital provides a

Complete Lifecycle Solution

GD GENERAL DIGITAL
Engineering What's Next

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