CYIENT

ENHANCING EMBEDDED SYSTEMS THROUGH TECHNOLOGY AND INNOVATION

Leveraging Cyient's multi-industry expertise in various embedded systems to solve customer's key pain points in engineering services, across varied disciplines of hardware, software, and product design & build.
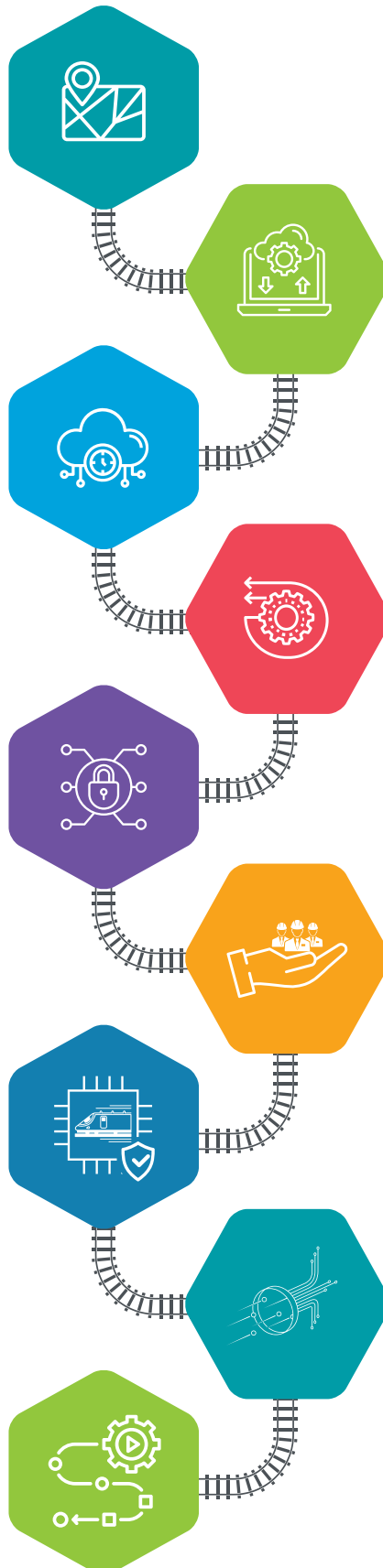
Full Software Development in compliance with Industry compliance
Supported customers in full software development life cycle projects that includes Model based, Manual code and open source code.

Migration programs for a seamless deployment
Supported customers in migrating the embedded systems (software and hardware) either due to obsolescence, development environment or compliance to regulatory standards

Export Controlled Programs
Our Melbourne team has supported various Export controlled embedded programs across different security levels through Nearsite or onsite teams

Independent Verification & Validation
Supported customers in tool qualification, developing the IV&V strategy, V&V factory model to implement with a good track record of 100% successful certification.

Supporting customer at multiple locations across the globe
Supported customers working in multiple locations across the globe, for various embedded engineering activities through near-site, onsite and offshore models.

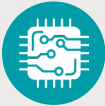**Managing program schedules of customer through right sizing of team**
Supported in various types of projects involving flexible team size requirements across various competencies of different embedded domains in critical program phases

System Safety engineering services with Industry compliance
Supported in product engineering across different phases of the life cycle that includes design to cost, across high safety levels to low safety levels

Lab Infrastructure
15,000 sq. ft. across Digital, Power Electronics, RF and Comms. Lab with state-of-art test equipment for development tests

Established processes and systems
In-house IPDP eight-phased process starting from ideation and conceptualization to manufacturing and product sustenance

Cyient's embedded capabilities spans across the entire life cycle, starting from design and development, independent V&V, and manufacturing. Cyient has over 1200 engineers working in the embedded domain, with an in-depth expertise in various software tools & technologies.

Software Development

Firmware Development – Microcontroller & FPGA

OS & Middleware Development – Device Driver & RTOS

Embedded Application Development – Manual codes & Model Based Development

IV&V

Development Artefacts Reviews

Model based Testing

Software Unit and Integration Testing

Hardware-Software Integration

System Testing

Hardware Development

Board Design

Power Electronics

Reliability, Testing and Qualification

ASIC and FPGA Design

Design/Modeling Tools	MATLAB / Simulink, SCADE, Artisan
Development Environment	C/C++, Ada83/95, Java, C#, DSP suite, Python, RTOS, Open GL, QT
Testing Tools	Lauterbach, CANalyzer, CANoe, RT Tester, RTRT, Cantata, VectorCAST, LDRA, Tessy, SLDV, CertSafe™, CertBench™
Protocol	ARINC 429, AFDX/CDN, MIL -1553B, CAN, RS 422
Electronics Design Tools	Mentor Tools, OrCAD, Cadence Tools, Altium, Pspice, RELEX
FPGA Development and V&V	Xilinx, MicroSemi, Cypress, ModelSim, QuestaSim, Altera
STANDARDS: DO 178, DO 254, EN 50128, EN 50155, IEC 61508, IEC 62304, ISO 13485, ISO 26262, ASPICE	

Having worked on multiple embedded systems across industries, Cyient's capabilities spans across power systems, connectivity systems, controls, actuations & display systems, and RF & sensors.

Below are few key products and systems under these categories:

Power Systems

- Electrical power distribution
- Battery management system
- HVDC-DC converter
- Generation system
- Low power charger (incl. USB)

Connectivity

- Navigation & surveillance systems
- Radio communications
- Edge connectivity
- SATCOM
- Wired & wireless communications

Controls, Actuations & Displays

- Control & actuation systems (incl. door & engine controls, medical diagnostics & analyzers)
- Entertainment & display systems
- Lighting systems

RF/ Sensors

- IoT sensors
- Ride quality sensors
- Antenna systems
- Amplifiers and filters

About Cyient

Cyient (Estd: 1991, NSE: CYIENT) is a leading consulting-led, industry-centric, global Technology Solutions company. We enable our customers to apply technology imaginatively across their value chain to solve problems that matter. We are committed to designing tomorrow together with our stakeholders and being a culturally inclusive, socially responsible, and environmentally sustainable organization.

We partner with customers to operate as part of their extended team in ways that best suit their organization's culture and requirements. Our industry focus includes aerospace and defense, healthcare, telecommunications, rail transportation, semiconductor, geospatial, industrial, and energy. We are committed to designing tomorrow together with our stakeholders and being a culturally inclusive, socially responsible, and environmentally sustainable organization.

For more information, please visit www.cyient.com

Contact Us

Belgium
Cyient
AnSem NV
Esperantolaan 9
3001 Heverlee, Leuven
T: +32 16 38 65 00
Semicon@cyient.com
www.cyient.com/ansem

North America Headquarters
Cyient, Inc.
99 East River Drive
5th Floor
East Hartford, CT 06108
USA

T: +1 860 528 5430
F: +1 860 528 5873

Europe, Middle East, and Africa Headquarters
Cyient Europe Limited
Apex, Forbury Road,
Reading
RG1 1AX
UK
T: +44 118 3043720

Asia Pacific Headquarters
Cyient Limited
Level 1, 350 Collins Street
Melbourne, Victoria, 3000
Australia

T: +61 3 8605 4815
F: +61 3 8601 1180

Global Headquarters
Cyient Limited
Plot No. 11, Software Units Layout
Infocity, Madhapur
Hyderabad - 500081
India

T: +91 40 6764 1000
F: +91 40 2311 0352

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