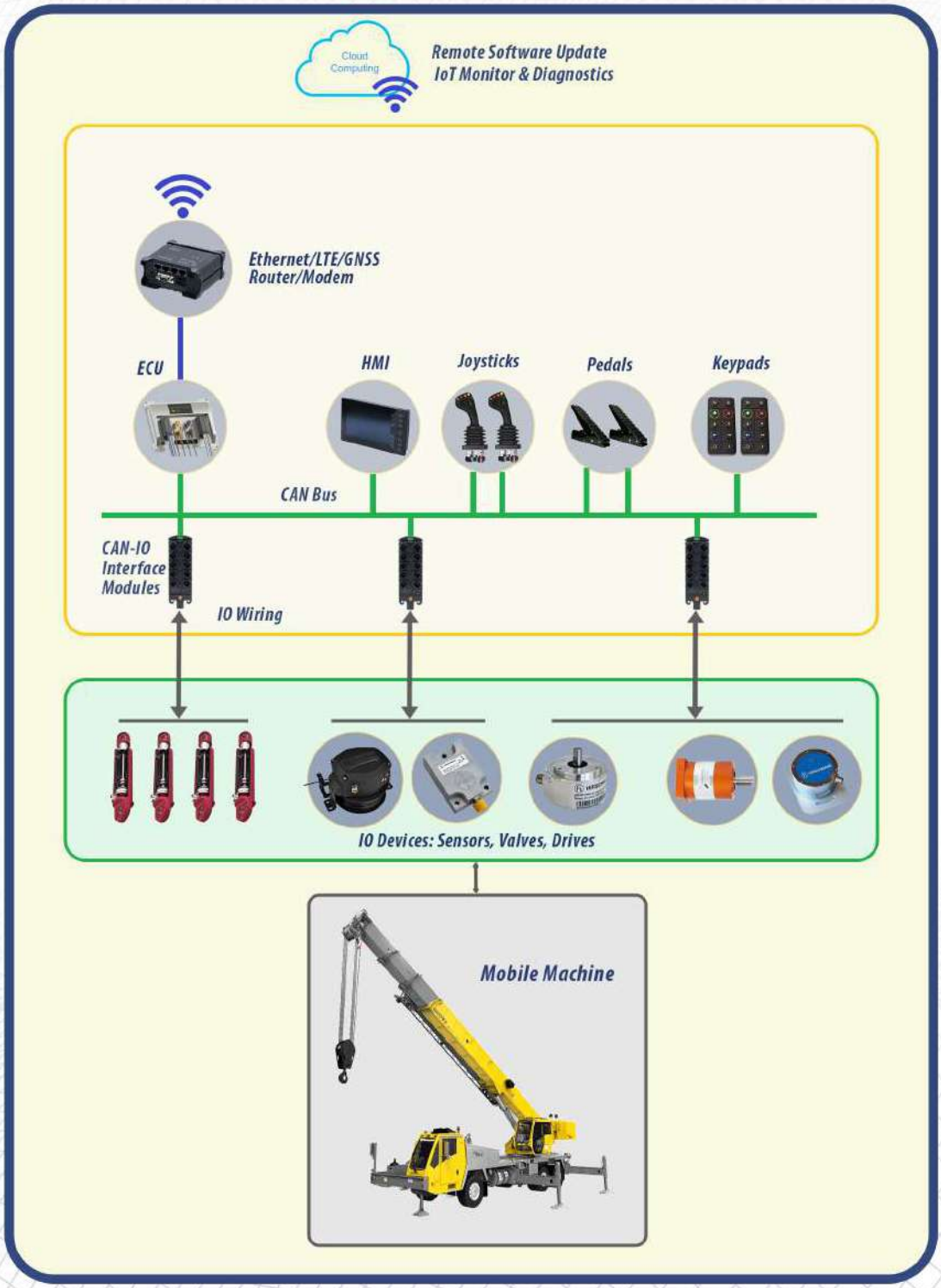
SERVOTECH

Award Winning Engineering Services

Mobile Machine Control System Based on CAN Bus



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Hardware

- ECU
- HMI
- Joysticks
- Pedals
- Keypads
- IO Interface Modules
- Ethernet LTE GNSS Modem

Cables

Power and IO Connector Cables
CAN Bus Cables
Ethernet Cables
Programming USB/Ethernet Module Cables

Software

- CODESYS Vxx SPyy Patch zz for each Master Device
- CODESYS Add-on Device Support Libraries for Devices
- CAN Bus Slave Nodes: EDS Files
- Application Software for the Machine

Applications

Mobile Machine Market: Tractors, Lift Trucks, Cranes, Dozers, Backhoe Loaders, Telescoping Service Trucks, Excavators, Wheel Loaders, Planting Machines, Sprayers, Harvesters,...

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Engineering Process

Step 1:
Concept Design

- Concept Design of the Proposed Control System
- Estimated Project Cost
- Detailed Design Cost

Step 2:
Detailed Design

- Bill of Materials
- Electrical Wiring Diagrams
- Hydraulic Circuit Diagrams
- Application Software Requirements & Architecture
- Updated Project Cost

Step 3:
Build: Hardware Assembly and Software Development with HIL

- Procurement of Bill of Materials
- ELectrical Wiring of Control System Components
- Application Software Developed and Tested in HIL Environment

Step 4:
Debug, Test and Validate on Machine

- Working Control System
- Documentation:
  - Bill of Materials
  - Wiring Diagrams
  - Application Software
- Maintenance Plan and Service Agreement

Working Machine

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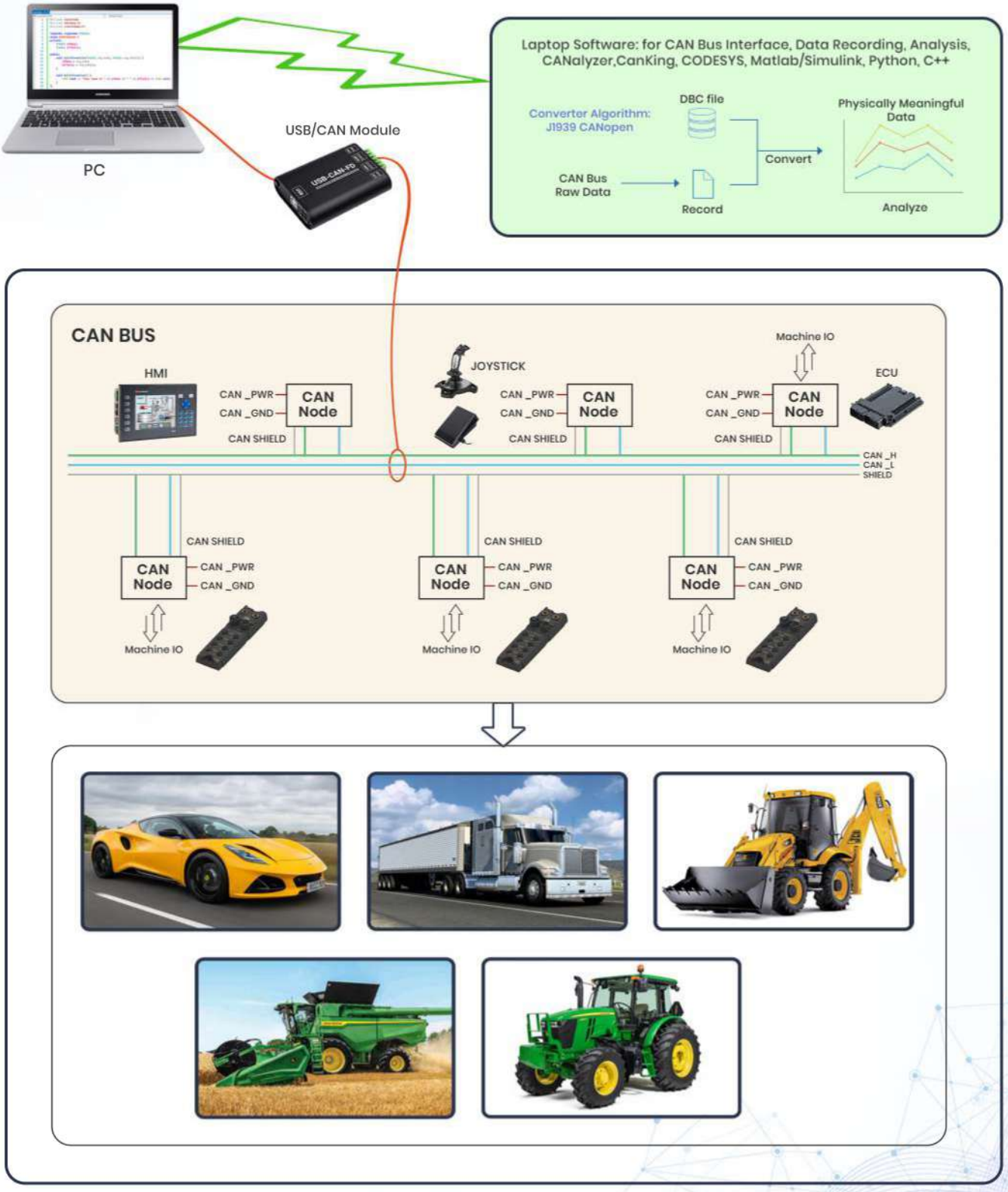
SERVOTECH

CAN Bus Testing, Diagnostics and Validation Engineering



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SERVOTECH

CAN Bus Testing, Diagnostics and Validation Engineering

Markets

Automotive, Construction, Agriculture, Mining, Marine, Warehouse Equipment.

Tools

Laptop PC, USB/CAN module, Software for CAN bus interface and data analysis; CANalyzer, CODESYS, Matlab/Simulink, C/C++, Python.

Expertise

CAN bus technology, embedded software; development, testing, diagnostics, debug and validation.

Services

- Design, Test, Diagnostics and Validation of a vehicle control system design based on CAN bus, using various protocols including J1939, CANopen, proprietary.
- CAN bus hardware design, Master and Slave node selections, configuration, programming.
- Test, diagnose, debug and validate CAN bus based operation.
- Strees-testing of existing systems for reliability.
- On-machine and remote data collection and monitoring.
- Application software/firmware upgrade.

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