utthunga
Engineering Transformation

ENGINEERING SOLUTIONS FOR DIGITAL TRANSFORMATION

ENGINEERING
SOLUTIONS I SERVICES
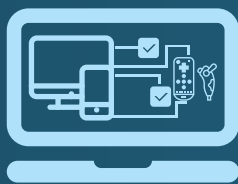
![utthunga — Engineering Transformation]

We offer a range of solutions & services to various industry verticles. We leverage our accelerators for OEMs & end-users in their transformative journey towards IIoT/Industrie 4.0 solutions

OUR INDUSTRY FOCUS
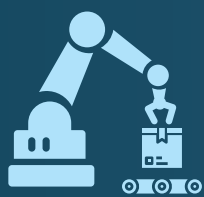
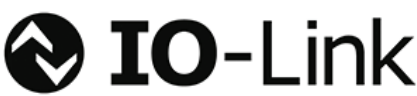Industrial OEM's   Discrete   Process   Power & Utilities

INDUSTRY ASSOCIATION

OPC FOUNDATION

ODVA.

FIELDCOMM GROUP
Connecting the World of Process Automation

FDT GROUP
Connecting the Intelligent Enterprise

PI
PROFIBUS • PROFINET

EtherCAT.

WCI

ETHERNET POWERLINK

IO-Link

CLPA
CC-Link Partner Association

Participating | Evolving | Adapting

JAVELIN - IIoT/INDUSTRIE 4.0 ACCELERATOR

Javelin is a robust, scalable, customizable accelerator developed ground up for Process, Power, Building and Factory Automation. Javelin enables comprehensive customization to suit industry specific needs.

COLLECT

Offerings
uConnect
uGateway
uConverter
uDatalogger
Edge Computing

Security
Secure Boot
TrustZone
Wireless Security
OPC Security
Protocol Level Security

OPC   MQTT   RESTful   AMQP   CoAP
WiFi   BLE   3G/4G

CLOUD

Offerings
IoT Hub Portal
Display Builder
Remote Management
On-premise Hosting
Hybrid & Private Cloud

Security
TLS/HTTPS
OPC UA Security
Private Cloud/VPN

AWS   Azure   Bluemix   ThingWorx
Hadoop/Spark   OpenStack
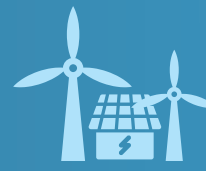
COMPUTE

Offerings
Machine Learning
Data Streaming
Custom Algorithms
Predictive Analytics
Prescriptive Analytics
Anomaly Detection
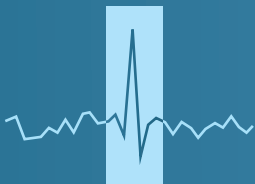
Smart energy meter solution

Industrial asset optimization and utilization solution

Solar and wind energy monitoring solution

Remote Monitoring

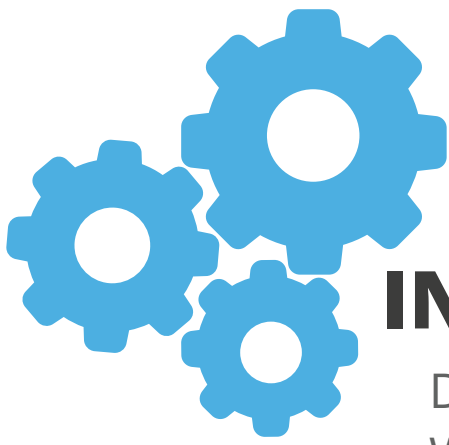Anamoly detection and prediction of industrial sensors
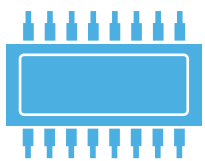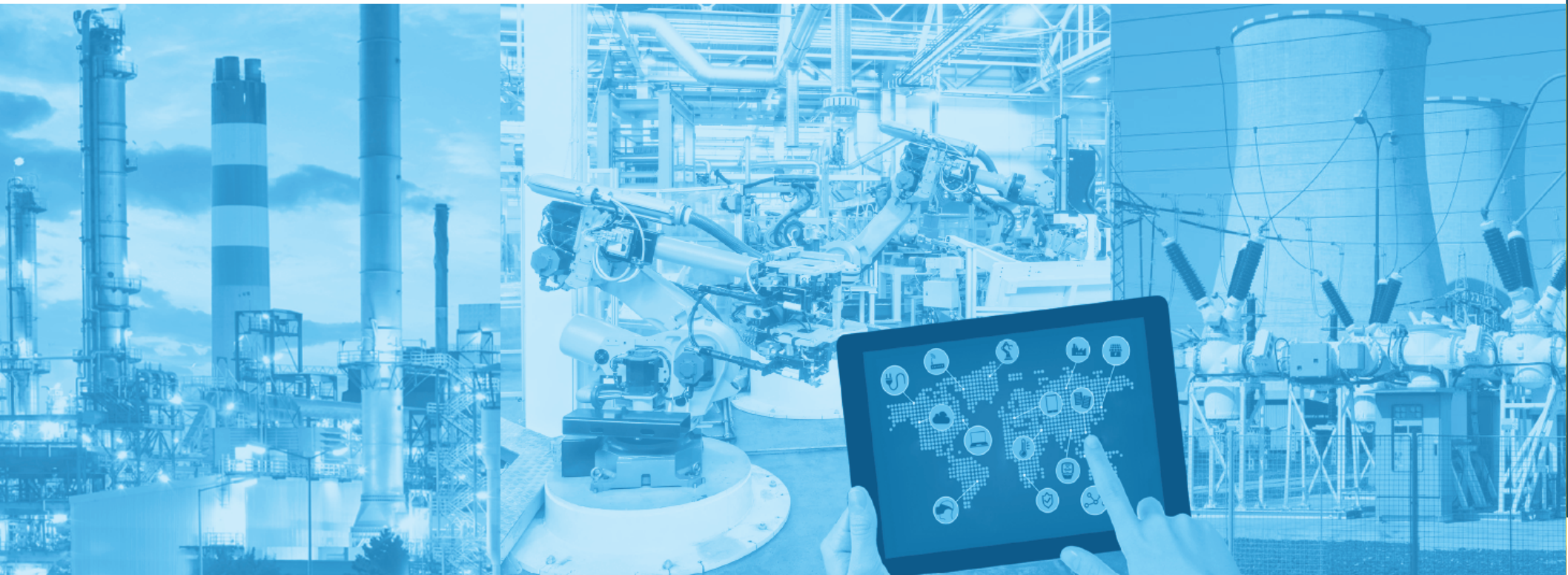
Process Digitization

Pharma energy consumption analysis and optimization solution

INDUSTRIAL DATA CONNECTIVITY

Data acquisition is a must to measure and manage.
We provide complete range of connectivity solutions
to acquire your industrial data.

Hardware Products

- Industrial IoT Gateways
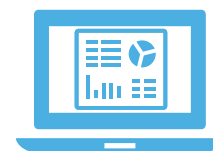- Protocol Converters
- Industrial Data Logger

Software Products

- OPC Client
- OPC Server
- Protocol Stacks

Offerings

- Protocol Stacks
- Device Digitalization
- Data Integration with
  ERP, MES, MOM

Simulators

- MODBUS
- IEC 104
- GE- GSM
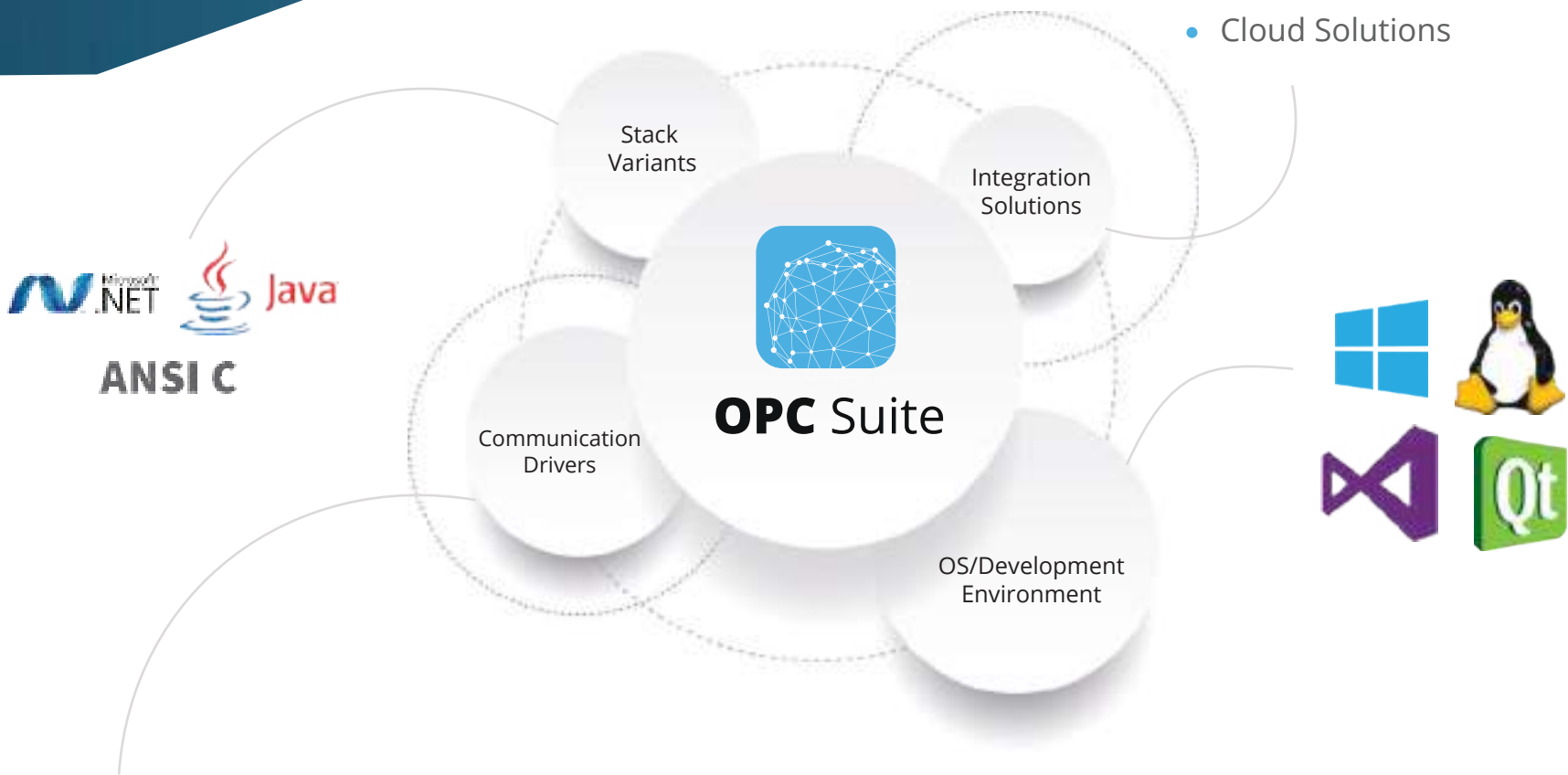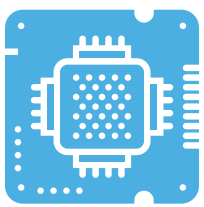- uHART(Single, 16 channel)
- EtherCAT

OPC

Monitor and control your industrial devices using Utthunga OPC solutions. We bring years of domain and technology experience to our customers to help them build world class OPC solutions.

- 13+ years of Industry Experience
- OPC Experts and Consultants
- Technical & Domain Expertise
- 500+ Professionals
- Flexible and Scalable business model

- Devices/Gateways/Data Logger
- Controllers/PLCs
- DCS/SCADA/HMI
- ERP/MES/MOM
- OPC Pub/Sub Module
- Cloud Solutions

OPC Suite

- Stack Variants
- Integration Solutions
- Communication Drivers
- OS/Development Environment

.NET Java ANSI C

Modbus   IEC 61850   SNMP   ASHRAE BACnet   DF1 PROTOCOL

EtherCAT   IO-Link   PROFIBUS   HART COMMUNICATION FOUNDATION   Fieldbus Foundation

dlms device language message specification   ISA 100 WIRELESS   dnp Distributed Network Protocol   PROFINET   WirelessHART   S7 COMM

CAN-bus   EtherNet/IP   MTConnect   CC-Link   CANopen   ···

EMBEDDED PRODUCT DESIGN SERVICES

- Product design services
- Embedded hardware design & development services
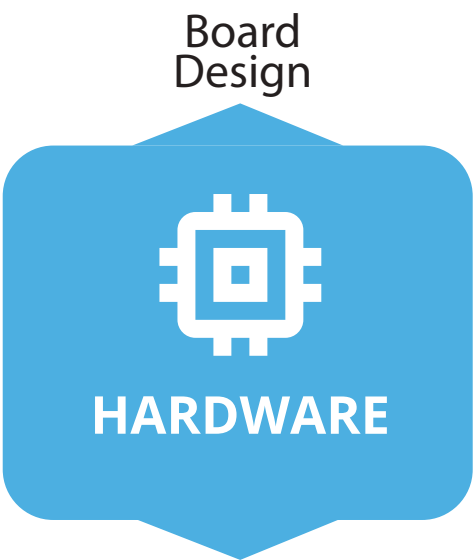- Firmware design & development services
- Value analysis / value engineering
- Mechanical design
- Environmental qualification test services
- Protocols: Mil-1553b & ARINC429
- Systems integration, System testing, and Software development - DOD2167A and MIL-STD-498 standards
- uHART Stack
- EtherNet/IP stack
- Wired & wireless HART pre-compliance

ENCLOSURE DESIGN

MECHANICAL
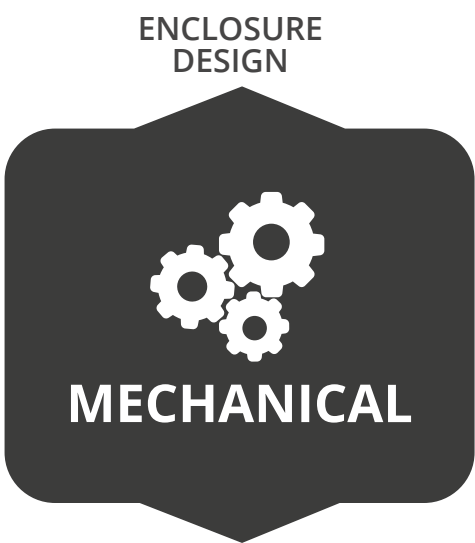
INDUSTRIAL DESIGN

Board Design

HARDWARE

PCB Design

Product Sustenance

Value Analysis/ Value Engineering

Obsolescence Management

Board Bringup, BSP

FIRMWARE

Application Development

JSS-55555

ENVIRONMENTAL

MIL-STD-810

MIL-STD-2164 - Environmental Stress Screening

We have deep experience in building industrial devices which can be leveraged to enhance or build products/solutions.

ENGINEERING SERVICES
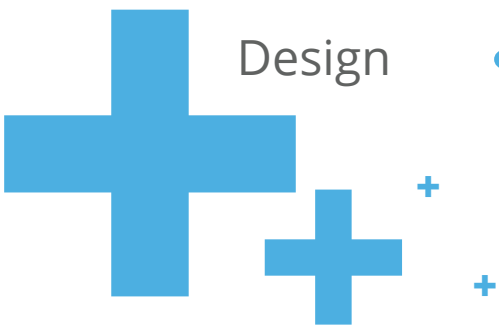
Design • Develop • Test • Maintenance

01 PRODUCT ENGINEERING
Services

- Device configuration & diagnostic tools
- Operator interfaces, control software
- Remote configuration & real time monitoring
- Asset management
- Control systems, device & protocol simulation
- Data acquisition system / DAC / Data logger
- Embedded HW design, development and Prototyping
- Embedded SW design & development
- Condition Monitoring

02 Hardware Design
Services

- High speed digital & analog design
- High speed PCB designs
- Communication protocol hardware design (wired & wireless)
- SI analysis, DFM & DFT
- Multi layer PCB design (16+ Layers)
- Design using BGAs (Fine pitch of less than 0.65 mm), SoC's

03 Obsolescence
Management

- Hardware redesign / BOM analysis
- Upgrade of legacy hardware
- Upgrade from 8/16bit MCU/Processor to 32 bit ARM core based design
- Migration from legacy microprocessor design to latest ARM/Non ARM MCU based solutions

04 Environmental
Qualification Testing services

- JSS-55555 / MIL-STD-810
- EMC/EMI
- Thermal shock
- High temperature
- Vibration

05 Device Integration Services
FDI/EDD/FDT

- FDI package / DD to DTM convertor
- FDI host development (Android, Linux, Windows)
- FDI support for asset management system
- FDI communication server development
- FDI device, UIP package development
- FDI workshop & consultation
- Modbus FDI Comm server
- EDD development & maintenance
- EDD registration support
- Interoperability testing support
- IEC compliance verification
- Convert EDD to FDI package
- uDTMSDK - DTM development suite
- DTM development (device, gateway, communication)
- FDT testing service for certification
- DTM workshop & consultation

06 INDUSTRIAL
Host Systems

- DD/DTM/FDI host support for HART, FF, Profibus, Ethernet IP, ISA100, Modbus, Custom protocols
- DD services, SDC625, EDD engine related offerings
- Handheld host, configurator, calibrator tool development
- FDI CHC Android & Linux SDK

Utthunga is an accredited
FDT TESTING CENTRE FOR CERTIFICATION

Utthunga is
PROFIBUS & PROFINET COMPETENCE CENTER

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