Rimpy Chugh

Kirankumar Karanam
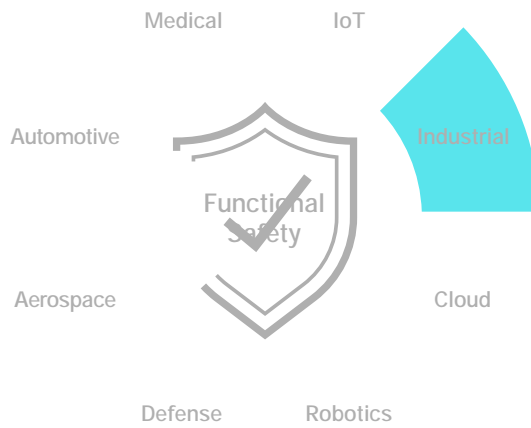
ISO 26262
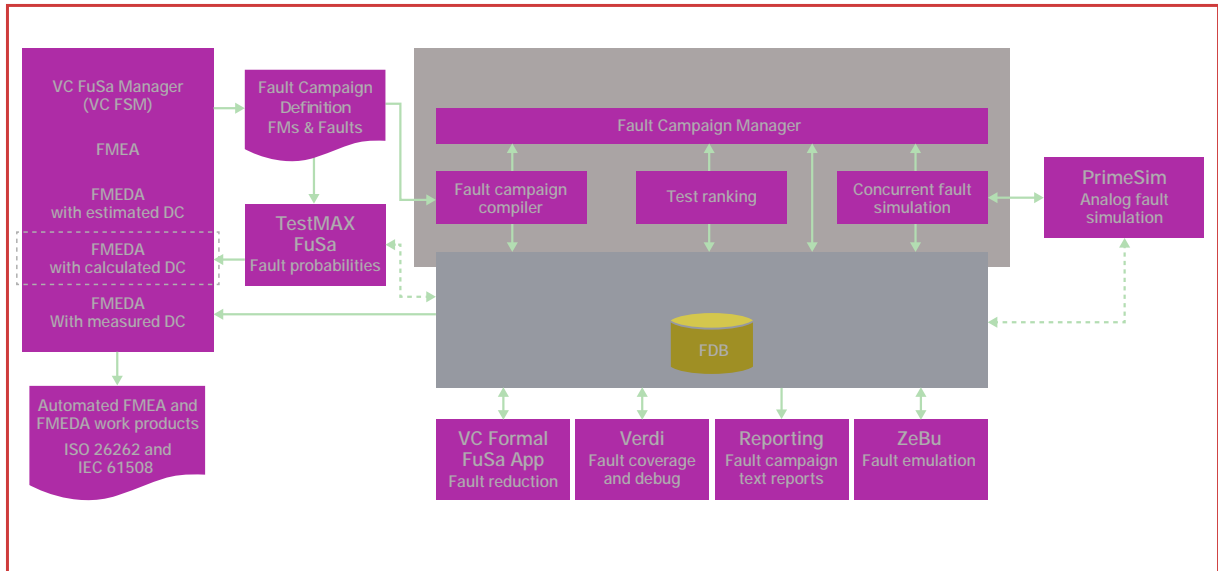
(fault simulation

(SoC)

SoC

(aging)   (alpha particle)

Medical   IoT

Automotive   Industrial

Functional
Safety

Aerospace   Cloud

Defense   Robotics

1,

Digital Fault Injection

VC FuSa Manager (VC FSM)

FMEA

FMEDA with estimated DC

FMEDA with calculated DC

FMEDA With measured DC

Automated FMEA and FMEDA work products ISO 26262 and IEC 61508

F_{SAFE}

Fault Campaign Definition FMs & Faults

TestMAX FuSa Fault probabilities

DC, F_{SAFE} back-annotation

VC Z01X
Fault Campaign Management with Fault Simulation

Fault Campaign Manager

Fault campaign compiler

Test ranking

Concurrent fault simulation

Faults DB

FDB

Analog Fault Injection

PrimeSim Analog fault simulation

VC Formal FuSa App Fault reduction

Verdi Fault coverage and debug

Reporting Fault campaign text reports

ZeBu Fault emulation

2,   (8gES)

FDB

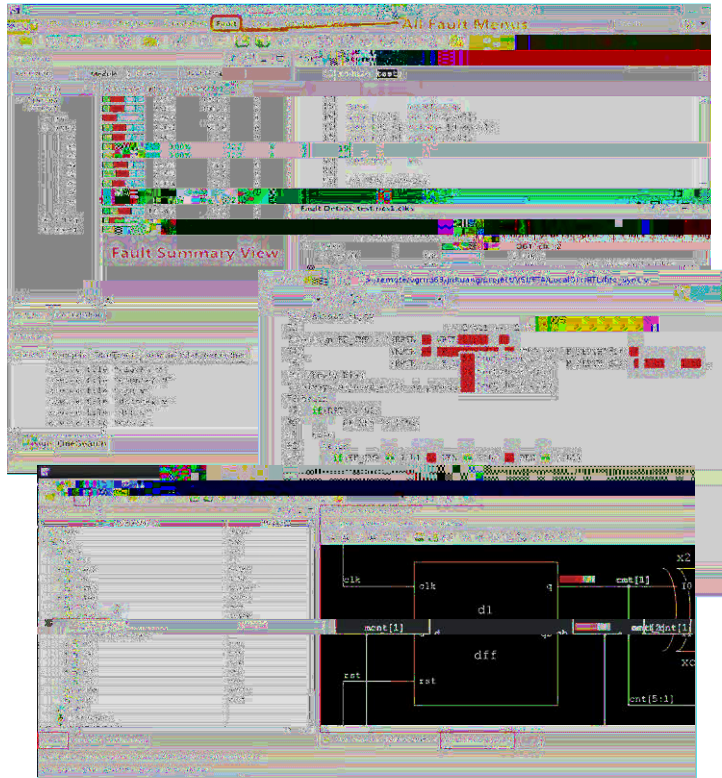FMEDA   (plug into)

VC Z01X

- VC   (FSM)   FMEA   FMEDA
- TestMAX FuSa   ISO 26262   (PMHF)
- PrimeSim CustomFault   (analog)
- VC Formal
- ZeBu   SoC   (emulation)

5, HWWV[

(toggle count)

6 Verdi