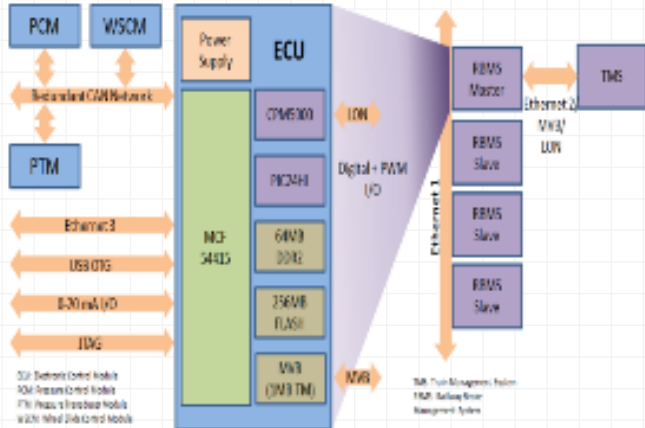


# RAILWAY BRAKE MANAGEMENT SYSTEM



## Solution Highlights

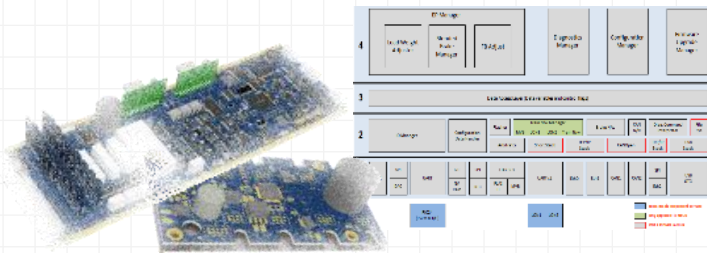
- // Provided architecture for the system block diagram to meet IEC61508 SIL 2 norms
- // Designed and developed complete hardware, software, and supporting applications
- // Carried out functional and performance testing

## Business Scope:

- // Concept design of overall brake system (hardware and software) in line with SIL-2
- // Define Interface Control Document for 4 communication channels
- // To meet system response time of 100ms using internal CAN communication
- // To match process safety time to less than 200 milliseconds
- // To develop high speed 12-layer PCB layout
- // Hardware design including board bring-up and FAT
- // To conduct reliability analysis

## Business Value Delivered

- // Undertook complete responsibility of design, development, and testing along with dynamic project management
- // Developed multiple simulators for parallel development of modules
- // Generated documentation in line with IEC61508 & IEEE 1558



Engagement



Technology



Ownership



Outcome



Relationship

Pneumatic Brake Controller Development

Product Development

Embedded

100%

Successfully Delivered

5 Years