Case #1: Autonomous ECU Software Development

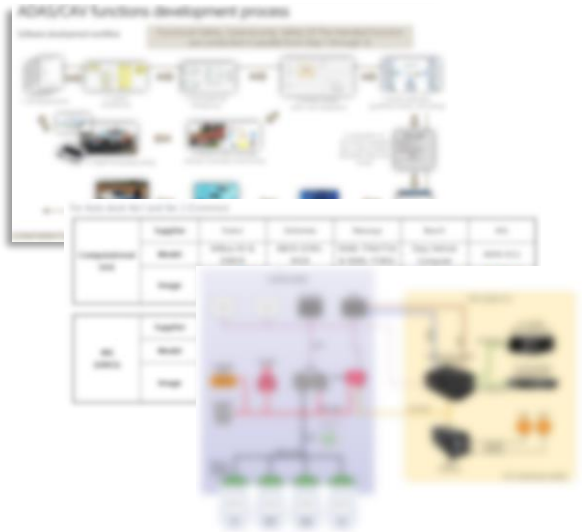
SC Automotive Engineering USA

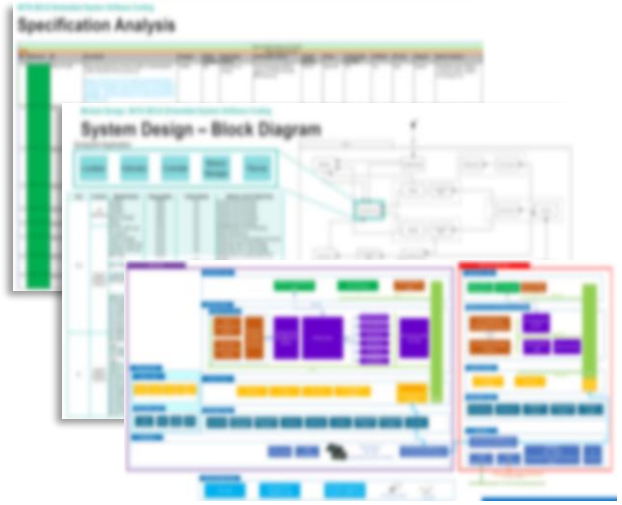
Pre-Concept → Concept → Prototype → Series → Post-SOP

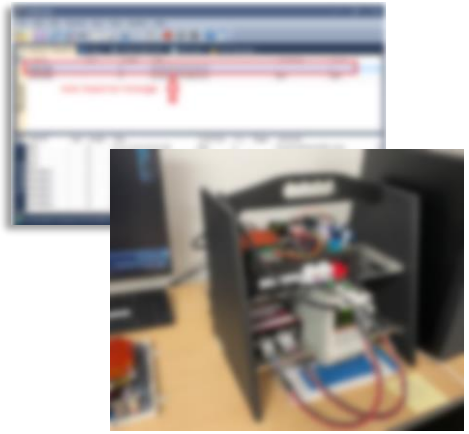
Customer: Global OEM for Marine Systems

Objective:
- Guide the OEM through Functional Safety and functional objection analysis, requirement setting, system design, code implementation & testing
- Provide the foundational software for ROS and CAN communication/interfacing

Project Details:
- Duration – 11 months
- Team Size – up to 30 (including 24 overseas)
- Contract Type – Deliverable and Time & Material Basis
- Deliverable Details – Consultancy Presentations, Specification Documents, Advice and Supplier Support, Source Code, Testing & Deployment Guidelines







- Consulting on ADAS technology/process
- Provide unbiased, data driven recommendation for products/vendors and potential system design

- Finalize the software specifications, system architecture, and module interaction.
- Determination of the suitable system hardware, operating system, and middleware

- Implement and custom code the operating systems and middleware
- Release code to Gitlab, Use Jira in daily operation, track project backlog
- Support HW supplier for integration testing and unit debugging

- Conduct integration testing and bug fixing with primary application running on ECU
- Construction, Programming, and Operation of HILS bench to confirm system functionality

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