



ISO26262 GAP ANALYSIS

THE PROBLEM

Developing autonomous driving and safety critical systems for the automotive industry is a huge challenge that require important investments in dollars and in engineering time. Rewards will be great for the successful innovators, but is your system really safe?

Tesla and Uber were recently involved in mortal situations linked to their autonomous driving systems and the impact were very important on their stock value and their reputation. What would be the impact on your venture?

What The CS group offers is an affordable gap analysis that would provide stakeholders a precise situation in regard to safety issues of their critical embedded software development, including a clear idea of the investments in time and in money required in order to bring to the market or to the prototyping phase a safe system.

OUR OFFERING

With their recognized expertise, the CS group can assess your Automotive Software system for compliance to the state of the art safety standard ISO26262 and provide a comprehensive report that outlines what it takes to achieve compliance. The Gap Analysis will provide you with critical information needed to achieve best in class high integrity systems.

FUNCTIONAL SAFETY ASSESSMENT

The CS group will provide a comprehensive report detailing a preliminary safety assessment of your system.



HAZARD IDENTIFICATION AND RISK ASSESSMENT

ASIL DETERMINATION

TECHNICAL SAFETY CONCEPT DEVELOPMENT AND SAFETY CASE DEVELOPMENT

GUIDANCE FOR YOUR DEVELOPMENT PROCESS (SAFETY GOAL, FSR, TSR, SSR)



SYSTEM AND SOFTWARE REQUIREMENT ASSESSMENT

It is known that most bugs result from poorly written requirements. The CS group will provide key insight into how to produce proper requirements for safety critical systems with a quality report regarding the best industry practices.



COMPLETE	CONSISTENT	VERIFIABLE
UNAMBIGUOUS	READABLE	TRACEABLE

SOFTWARE DEVELOPMENT AND VERIFICATION ASSESSMENT

Your implementation provides a lot of insight into potential problem areas relative to safety. The CS group will provide you with an assessment relative to key concepts. Additionally, CS will provide guidance for a Verification and Validation strategy to meet your safety objectives.



STRUCTURAL	CERT	DEAD CODE
CODE	DYNAMIC	SET/USE
REDUNDANCY	OVER/UNDERFL	V&V

WHY CS COMMUNICATION & SYSTEMS CANADA AS A SAFETY DEVELOPMENT PARTNER?

The CS group have been involved successfully for more than 18 years with the most demanding and the highest level of critical systems in the aerospace industry with jet engine controls and avionics systems within DO-178C level A certification with the largest OEMs in North America.

We also partnered with experienced industry leading experts within the automotive standards and we provide the automotive industry the same level of quality and efficiency that is required by the aeronautics industry and that the new challenges linked to autonomous driving demand.

We support planes fly safely and we can definitively help cars drive safely!