

# Functional Safety & SOTIF consulting

By Daniel Wahlberg

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According to **Your needs** I can:

- Perform **training**
- Conduct **audit, assessment** and **confirmation reviews**
- Qualify **tools** and **components**

# Functional Safety & SOTIF consulting

## Background

### 14 years experience:

**2021-2025**

Leader of functional safety assessment center at Huawei in Shanghai, China

[See a short movie about my life and work in China](#)

**2018-2021**

System safety leader at Geely in Zhejiang, China

**2017-2018**

System safety leader at CEVT in Gothenburg

**2012-2016**

System safety engineer at Volvo Cars powertrain in Gothenburg

**2011-2012**

Software engineer at QRTECH



# Functional Safety & SOTIF consulting

## Background

### **Engineering scope:**

I have worked with powertrain systems for fuel and electric propulsion, ADS, brake and vehicle dynamic control, steering, HV systems (battery, OBC), body functions (door and window control, lighting, wipers, seats, hood, trunk), and HMI.

### **Education:**

Master of Science in System, Control & Mechantronics, Chalmers University of Technology

### **Training:**

FSM - Functional Safety Management, by SGS

FSP - Functional Safety Professional, by SGS

FSIA - Functional Safety Internal Audit, by SGS

SOTIF by SGS

**Functional Safety  
& SOTIF consulting**

**Standards**

Compliance according to:

INTERNATIONAL  
STANDARD

**ISO  
26262-2**

Second edition  
2018-12

**ISO 26262**  
Functional Safety

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**Road vehicles — Functional safety —  
Part 2:  
Management of functional safety**

*Véhicules routiers — Sécurité fonctionnelle —  
Partie 2: Gestion de la sécurité fonctionnelle*

INTERNATIONAL  
STANDARD

**ISO  
21448**

First edition  
2022-06

**ISO 21448**  
SOTIF

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**Road vehicles — Safety of the intended  
functionality**

*Véhicules routiers — Sécurité de la fonction attendue*

## Functional Safety & SOTIF consulting

# Training

Customized training for different roles

Introduction\* to  
Functional Safety

Introduction\* to  
SOTIF

\* Awareness training that is suitable for all concerned roles in your organisation

Role training\*\*:  
Functional Safety Manager

Role training\*\*:  
Functional Safety Engineer

\*\* Can cover Functional Safety and/or SOTIF, and be customized to your development scope

# Functional Safety & SOTIF consulting

## Audit

Evaluation and improvement of your  
development process



# Functional Safety & SOTIF consulting

## Assessment

Evaluation and improvement of your product and work products:

- Plans
- Specifications
- Analyses
- Verification & Validation

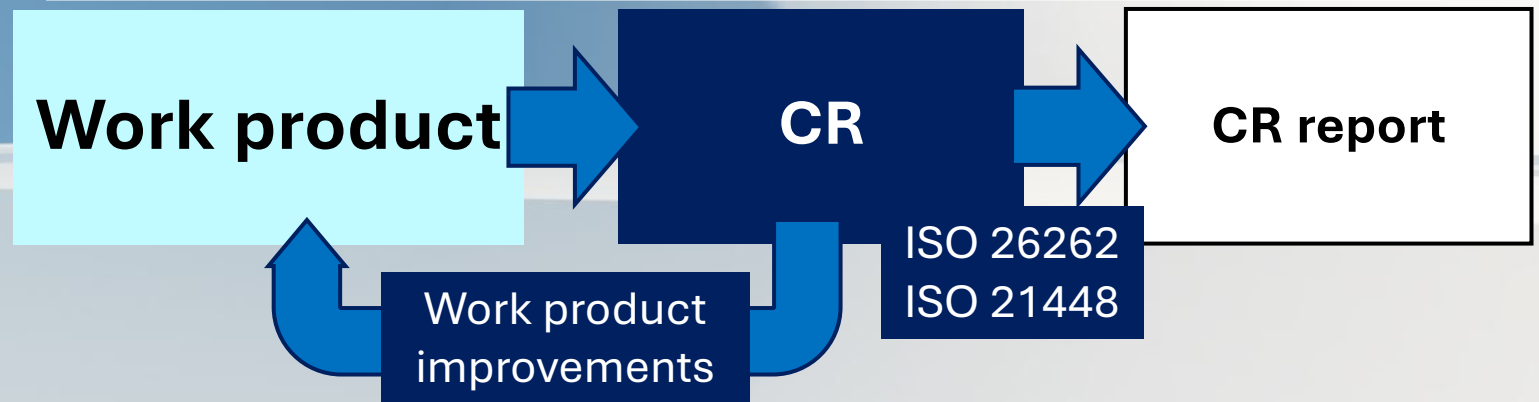


## Functional Safety & SOTIF consulting

## Confirmation reviews (CR)

Evaluation of your work products:

- Impact analysis
- Safety plan
- HARA (Hazard analysis and risk assessment)
- FSC (Functional safety concept)
- TSC (Technical safety concept)
- Safety analyses (FTA, FMEA, DFA)
- Integration and test strategy
- Safety validation specification
- Safety case



**Functional Safety  
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**Software tool  
qualification**

Qualification of tools that is used in functional safety development



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**Component  
qualification**

Qualification of software or hardware components, that has ASIL requirements, but are not developed according to ISO 26262.



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