

# Mutlu Unsal

## Senior Functional Safety Expert

### Electronics & Telecom Engineer, BSEE

Istanbul Technical University, 1991

### European MBA,

University of Hull, United Kingdom, 1993

### Automotive Emissions Technician,

California State Licensed, 2002

## Qualifications

- Automotive Emissions Test & Repair Technician, California State License, USA
- ISO 9000 Quality Auditor, 1991
- ASPICE Provisional Assessor, Intacs Certified, 2016
- Agile, Scrum, Kanban Methodes Training, 2016

## Expertise

- ISO-26262 Functional Safety / ASPICE
- ADAS / AEB / AD – Radar, Camera Controllers – ECU
- Automotive SW Development, Vehicle/System Testing
- Automtoive Test – Measurement, Prooving Grounds

## Languages

German, English, Turkish, Italian

## Contact

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## Experience

- Functional Safety Consultant / Manager / Engineer, ISO-26262
- Functional Safety Trainer / Instructor, Auditor, Assessor
- Project Manager, Automotive Prototype Development
- Complete Electrical Vehicle Functional Safety Concept Development
- EV Electrical Vehicle / Li-Ion Battery / BMS development, complete powertrain integration, vehicle test, measurement technology
- Electrical Vehicle Powertrain Control Unit PECU development
- ADAS Advanced Driver Assistance Systems, AD Automated Driving
- AEB Advanced Emergency Braking, Camera / Radar Systems
- MMS Motor Management Systems, Engine ECU, OBD-II
- EHCU Electronic Hydraulic Brake Controller Unit
- BDC Body Domain Controller, BMS Battery Management System
- Vehicle emissions systems testing and certification, USA and Europe

## Previous Positions

- **Senior Functional Safety Consultant / Expert:** Battery and BMS, Heating Controllers, Steering, Braking, Powertrain, Lights, Doors, BDC Controllers, ISO-26262 Functional Safety Concepts; ([A123 SYSTEMS](#), [GENTHERM](#), [NEXTEER](#), [MARQUARDT](#), [DAIMLER](#), [PORSCH](#)E, [AUDI](#), [BMW](#), [FERRARI](#), [e.GO Mobile](#), [BOMBARDIER](#), [VISTEON](#), [TRW](#), [ZF](#), [MAGNA ELECTRONICS](#), [KUGLER-MAAG CONSULTANCY](#))
- **Global Functional Safety Manager:** Camera – ADAS, ISO-26262; ([FCA/MASERATI](#), [GM/OPEL](#), [DAIMLER](#), [MOBILEYE](#), [MAGNA ELECTRONICS](#))
- **Functional Safety Manager:** BDC Body Domain Controller, ISO-26262; ([BMW](#) - [VISTEON](#), [LEAR](#), [CONTINENTAL](#))
- **SW Functional Safety Engineer:** Automated Driving Project, ISO-26262; ([ZF-TRW-DAIMLER](#))
- **Functional Safety Engineer / ECU Function Developer:** EV Electrical Vehicle (Bus), ISO 26262; ([BOMBARDIER](#))
- **ADAS Resident Engineer:** ECU Development, zFAS Central Driver Assistance Systems Platform; ([AUDI](#), [DELPHI](#), [TTTECH](#), [MOBILEYE](#), [NVIDIA](#))
- **Automotive Measurement Technology Engineer:** ADAS Advanced Driver Assistance Systems, S-Class development: ([DAIMLER-MBTECH](#))