

# AL Safety Design

## PA/QA Management

### **AL Safety Design Ltd**

is an independent consulting firm, which was founded and started its operation in 1991.

The services include:

- Risk Management
- Reliability Engineering
- Product Assurance and
- Conformance Engineering

The company is privately owned by its employees.

Our international customers include major companies in energy technology, chemical industry, aerospace and electro-technical industry.

The assignments are carried out according to the latest Reliability, Safety and Quality standards.

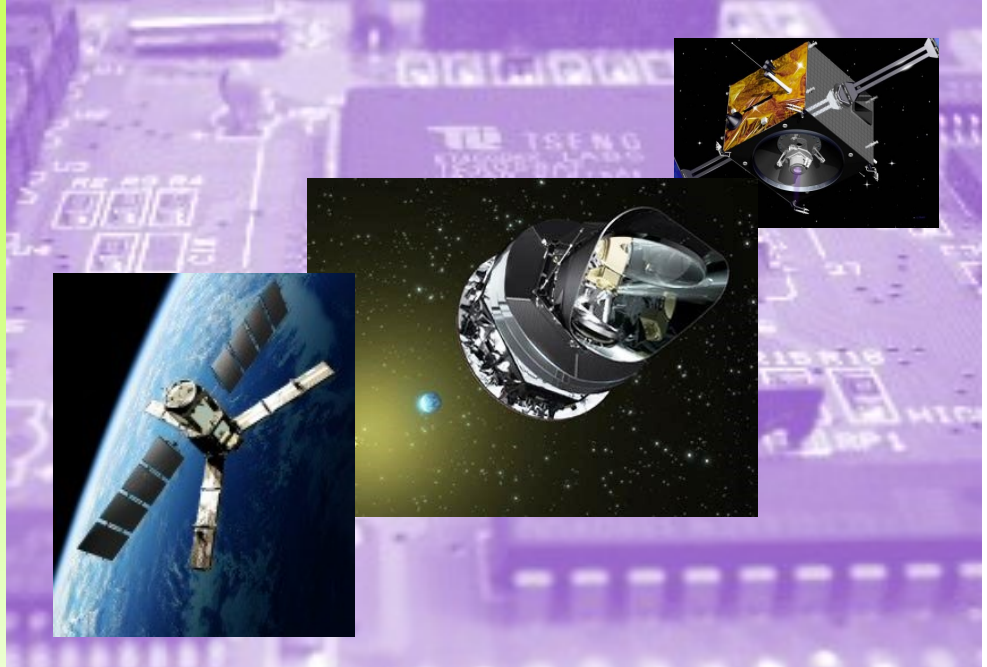
*We enable our customers to develop superb technology products*

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**AL Safety Design Ltd offers:**

- **Product Assurance (PA) Management and Documentation**
- **Reliability and Risk Analysis in design projects**
- **Training courses in PA, Reliability Engineering and Risk Analysis**

**Product Assurance (PA)** is conducted as described in a Product Assurance Plan. It includes Quality Assurance, Reliability and Risk/Safety Management. In space technology projects the requirements for the PA activities are described in the ECSS Standards by ESA. Our services include:

- PA/QA Management and documentation in a project
- Risk analysis, product safety assurance
- Reliability engineering in product development
- Component procurement services (e.g. space quality components)
- Manufacturing and Test supervision and QA procedures
- FMECA, Reliability analyses, MTBF-calculations, modeling
- SW failure analysis, Hardware-software interactions analysis
- Reliability test plans for equipment and components

*Company specific training courses are available, based on many years practical experience in various industries. See [www.reliabilityacademy.fi](http://www.reliabilityacademy.fi) .*

AL Safety Design Ltd's PA Management References for space instruments:  
**Flying: SMOS. Missions completed: Rosetta Lander, Planck LFI, Phoenix Lander, Smart-1, Cassini-Huygens etc.**

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