



Requirement	Importance	Type	Date Edited	UserId	Version	Category 1	Category 2	Category 3	Category 4	Linked
The vehicle will use an automatic airspeed transducer interconnect	Medium	Safety	2011-10-23 15:15	hloewen@hloewen.com	4	Software Requirement				No
The vehicle will include a user manual	Medium	Safety	2011-10-23 15:15	hloewen@hloewen.com	2	Software Requirement				No
The manual will include a maintenance schedule	Medium	Safety	2011-10-23 15:15	hloewen@hloewen.com	3	Software Requirement				No
The maintenance schedule will include an annual check of sensor calibration	Medium	Safety	2011-10-21 12:12	hloewen@hloewen.com	2	Software Requirement				No
The maintenance schedule will specify that servos are replaced every 50 hours	Medium	Safety	2011-10-21 12:12	hloewen@hloewen.com	2	Software Requirement				No
The maintenance schedule will specify that the propeller is replaced every 25 hours	Medium	Safety	2011-10-20 18:18	hloewen@hloewen.com	1	Software Requirement				No
The manual will include a daily inspection	Medium	Safety	2011-10-20 17:17	hloewen@hloewen.com	1	Software Requirement				No
All servos will be inspected daily	Medium	Safety	2011-10-21 12:12	hloewen@hloewen.com	2	Software Requirement				No

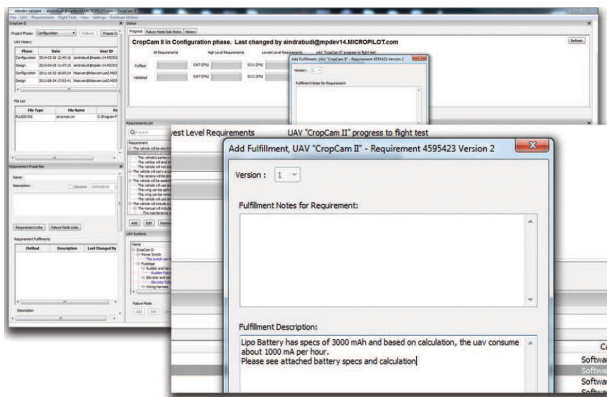
## XTENDER<sup>validate</sup>

### Requirements based UAV life cycle software

Develop high-level requirements and easily decompose them into appropriate lower level requirements with XTENDER<sup>validate</sup>, the world's first available design life-cycle tool for UAVs.

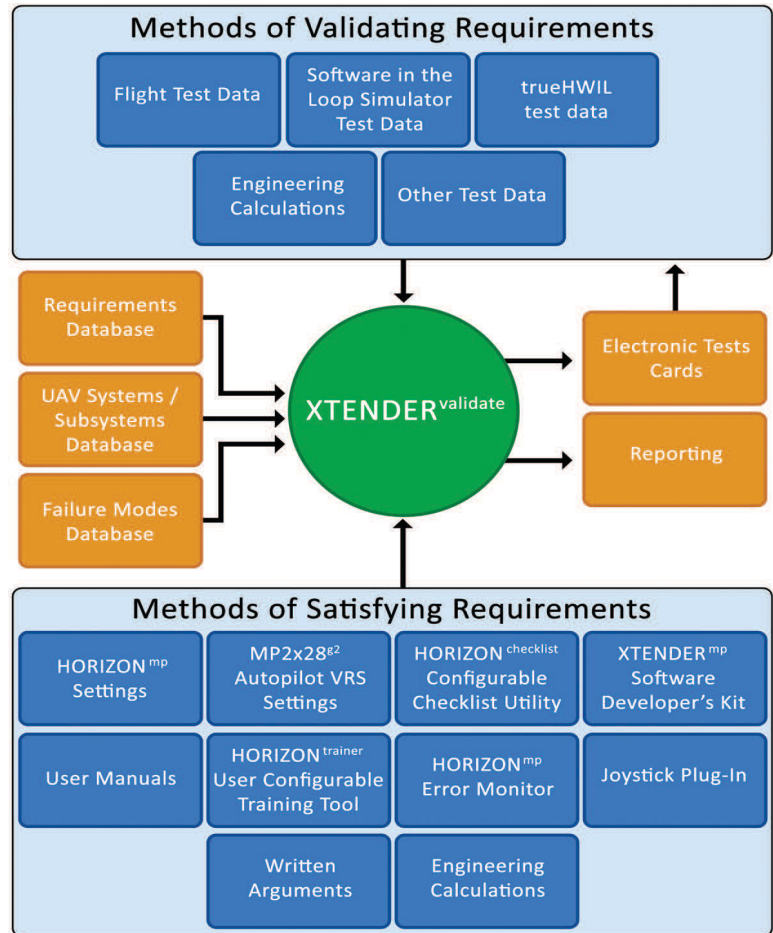
Systematically link flight, user, and simulator testing validation data to requirements. Likewise, link requirements to autopilot options and GCS settings. Additionally, XTENDER<sup>validate</sup> incorporates a failure analysis tool that helps identify subsystem failure modes and links them to requirements.

#### Fulfilling requirements

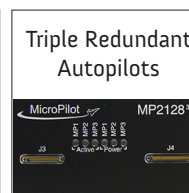
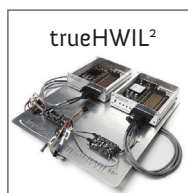
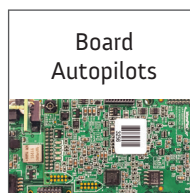


With XTENDER<sup>validate</sup>, clearly satisfy requirements via autopilot options, ground control station options, UAV design, and more. And auto-generate electronic test cards complete with descriptions for each test, indicators for severity, and schedule dates.

Automate documentation for each requirement and its implementation, with this design lifecycle tool. XTENDER<sup>validate</sup> offers a flexible means of satisfying requirements and provides progress and fulfillment reporting.

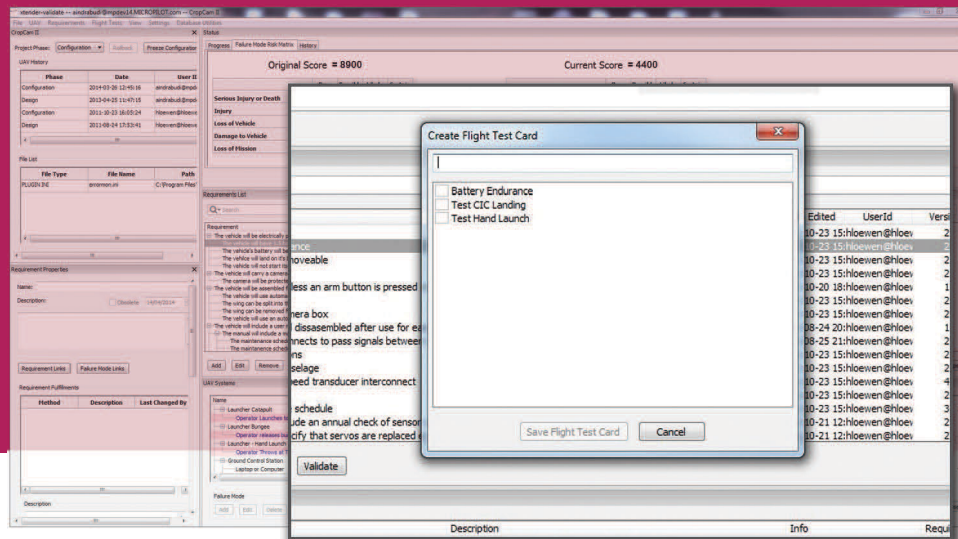


**Build quality systems that meet high-level expectations**



# XTENDER validate

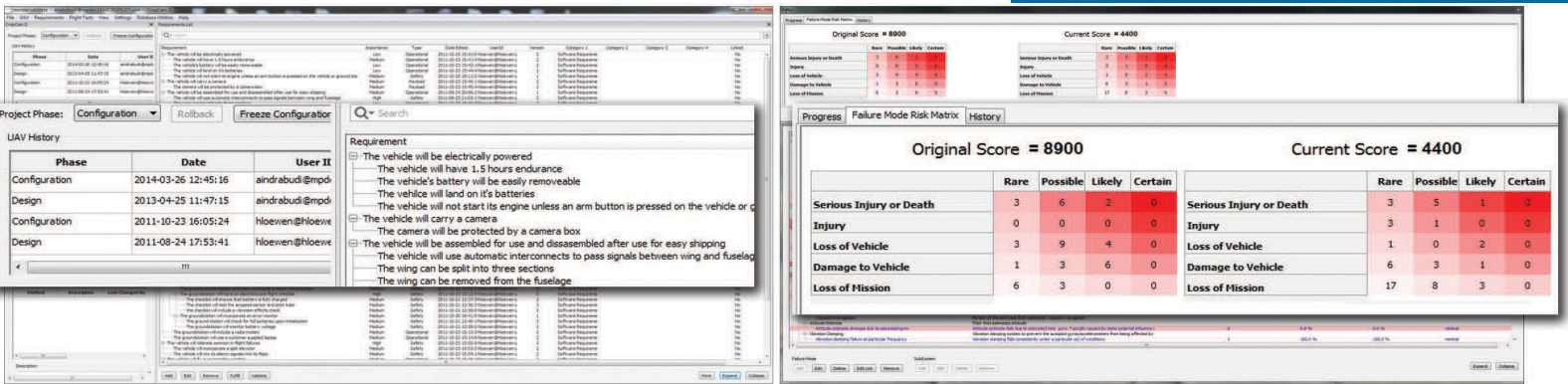
## FLIGHT TEST CARD



## Features:

- Freeze and roll back requirements and implementation capability
- Requirements link to autopilot options and GCS settings
- System and subsystem decomposition tool
- Share requirement subsets among multiple UAVs
- Integrated failure modes analysis and mitigation tool
- Auto generated electronic test cards from requirements
- Validation data linking to requirements
- Requirements and implementation change history
- Progress tracking for satisfying and validating requirements

## XTENDER validate overall



## Linking flight test to requirements

