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(FPGA) in order

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flight computers
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system

functionality is
such that it
requires a stack
of PCB's that
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architecture
introduces
limitations in
terms of
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stability that
must be
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Mechanical
characterization
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electronics must
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that a new system will not fail under normal operation. This is especially true for systems subjected to harsh environments such as space flight. System level packaging must be employed

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in order to
prevent damaging
these systems.
Factors such as
weight
constraints,
system
architecture,
mechanical, and
thermal loading
must be
considered,
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applications.

During development of the sensor, different test beds were employed in order to characterize the radiation sensor and it's supporting electronic systems. The

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most common preliminary tests are high altitude balloon tests which allow the sensor to experience cosmic radiation at high altitudes, consistent with space flight operations. Each balloon test has

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mechanical and thermal criteria that must be met in order to survive flight. These criteria include resistance to vibration loading, as well as the ability to maintain system operational

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temperatures

inside a payload
as it ascends
through the
atmosphere.

Finite element
analysis (FEA)
was used to
evaluate primary
system
architecture,
system support
structures, as
well as the

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flight payload
in order to
determine if the
system would
survive

preliminary, and
future, testing.

System level
architecture and
test payloads
were designed
using SolidWorks
cad software.

ANSYS FEA

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software was used to create thermal models which accurately simulated convective cooling through the atmosphere, and solar radiation loading on the exterior of the payload.

Vibration models

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were performed in order to find the natural frequencies of the subsystem, as well as characterize the response to applied vibrations.

Conclusions from each model show that the system will survive

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expected test

loading at a

wide range of

vibration

frequencies, and

maintain a

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