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Customer Projects using Sundance Systems

I thought it would be useful to create a number of user stories that might be of more interest and relate to what you are doing, rather than product announcements, which don't really tell you what can be done with the products.

I would appreciate any comments / feedback on this idea to see if we should continue it.

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- 1) **ASTRONOMY**: Spectroscopic data acquisition instruments
 - 2) **MIMO RADAR**: Software defined radio and Radar (SDR)
 - 3) **WIRELESS**: Exploring 60GHz Band Wireless Communication
 - 4) **AEROSPACE**: Low-power DSP-based processor board for micro-satellites
 - 5) **TELECOMMUNICATIONS**: Communication interoperability and Cognitive Radio
 - 6) **ASTROPHYSICS**: SUNRISE mission - Study of the solar magnetic field
 - 7) **ENERGY PHYSICS**: Digital Low Level RF System - ALBA Synchrotron Accelerator
 - 8) **AEROSPACE**: Simulators for ARGOS and SARSAT satellite beacons
 - 9) **EMBEDDED VISION**: Real time target tracking algorithm
 - 10) **CONTROL & AUTOMATION**: Scanners for sawmills (Edging, Green and Dry sorting)
 - 11) **ENERGY PHYSICS**: DSP-based RF control system for FAIR
 - 12) **IMAGING**: Microstrip detector for X-ray spectroscopy
 - 13) **DEFENSE**: Portable humanitarian mine detection systems
 - 14) **MILITARY**: Altitude interference mitigation module system
 - 15) **AVIONICS**: In-flight test instruments for the Airbus A380 and A400M
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ASTRONOMY: Spectroscopic data acquisition instruments

Radio astronomers are using a multiprocessor-based data acquisition instrument to investigate the magnetic field in the interstellar medium of our Galaxy.

[More Information ▶](#)

MIMO RADAR: Software defined radio and Radar (SDR)

Dr. Joel Johnson's team uses Sundance development platforms for their research in building a low-power experimental radar system.

[More Information ▶](#)

WIRELESS: Exploring 60GHz Band Wireless Communication

Dr. Amir K. Khandani's team uses Sundance communications development platform for their research in 60GHz band wireless communication.

[More Information ▶](#)

AEROSPACE: Low-power DSP-based processor board for micro-satellites

MIT Space Systems Laboratory chose Sundance's C6701 processor board for the International Space Station's micro-satellites.

[More Information ▶](#)**TELECOMMUNICATIONS: Communication interoperability and Cognitive Radio**

SUPELEC, French "Grande Ecole" of Engineering, chose Sundance's multiprocessor software defined radio (SDR) development platform for the Smart Radio Challenge '07.

[More Information ▶](#)**ASTROPHYSICS: SUNRISE mission - Study of the solar magnetic field**

The Astrophysics Institute of Andalusia (CSIC) in collaboration with other research institutes are in charge of designing the Imaging Magnetograph Experiment (IMaX).

[More Information ▶](#)**ENERGY PHYSICS: Digital Low Level RF System - ALBA Synchrotron Accelerator**

CELLS, a consortium in charge of building the synchrotron in Barcelona, has chosen the SMT8036 kit to design and build a prototype of digital low level RF system for the ALBA Synchrotron.

[More Information ▶](#)**AEROSPACE: Simulators for ARGOS and SARSAT satellite beacons**

EREMS has designed and developed simulators for several generations of ARGOS and SARSAT satellite beacons.

[More Information ▶](#)**EMBEDDED VISION: Real time target tracking algorithm**

Polytech' Clermont-Ferrand, a French Engineering school, ran a university project in partnership with Sundance. The main work was focused on building a standalone embedded system based on the Sundance advanced video system: SMT8039.

[More Information ▶](#)**CONTROL & AUTOMATION: Scanners for sawmills (Edging, Green and Dry sorting)**

FinScan is an expert in real-time image processing, optimizing systems for the sawmill and veneer industry.

[More Information ▶](#)**ENERGY PHYSICS: DSP-based RF control system for FAIR**

FAIR is an international accelerator facility with intense and high-energy beams of antiprotons and ions designed for research purposes. The GSI RF Department is in charge of designing a fast DSP-based closed-loop RF control system in the context of the project FAIR.

[More Information ▶](#)

IMAGING: Microstrip detector for X-ray spectroscopy

The Daresbury Laboratory has developed a new high-resolution silicon microstrip-based instrument in collaboration with Cambridge and Southampton universities for the study of dynamic processes using real-time X-ray spectroscopy.

[More Information ▶](#)**DEFENSE: Portable humanitarian mine detection systems**

Qinetiq has developed a PHMD instrument using a pulse induction metal detector combined with ground penetrating radar (GPR) array.

[More Information ▶](#)**MILITARY: Altitude interference mitigation module system**

The United States Navy's Advanced Technology Engineering Group chose Sundance's hardware for their ultra complex, ultra sophisticated electronic warfare algorithms, providing unique hybrid DSP-FPGA hardware and a model based design solution to program it.

[More Information ▶](#)**AVIONICS: In-flight test instruments for the Airbus A380 and A400M**

Thales Avionics chose Sundance's systems for the next generation of particle laser Doppler anemometry test equipments, in-flight data recorder systems for the A380 and new standby LIDAR instruments for the Airbus A400M.

[More Information ▶](#)

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