

Voler Systems partners with leading chipset provider to deliver cutting-edge solutions across industries.

Voler Systems: Powering Innovative Solutions Across Industries.

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Solutions Across Industries



Voler Systems, a Silicon Valley electronic design leader specializing in medical devices, wearables, and IoT devices, has been at the forefront of integrating advanced semiconductor technologies into its innovative projects. In collaboration with a leading chipset provider, Voler Systems has harnessed the power of these chipsets to develop groundbreaking solutions across MedTech, IoT, and consumer industries.

This partnership showcases the synergy between Voler's expertise in custom engineering and the leading chipset provider's robust semiconductor products, delivering enhanced functionality, flexibility, and performance to clients worldwide.

A Strategic Partnership: Leveraging a Comprehensive Ecosystem

The leading chipset provider's chipsets represent an optimal choice for developers due to their comprehensive ecosystem, which includes superior documentation, robust developer support forums, and accessible field application engineering resources. Its commitment to the developer community creates an efficient and effective product development environment. This type of environment allows Voler Systems to push the boundaries of what is possible in custom design.

Miguel Adao, President and CEO of Voler Systems, emphasizes the advantages of the provider's offerings: "They provide a more refined development experience with well-thought-out operational aspects and flexible architectures that support customization. This flexibility is often unmatched by other chips in the market and allows us to innovate beyond the conventional."

Advanced Bluetooth Low Energy (BLE) Implementations

One notable Voler project involved the creation of a completely custom approach to Bluetooth Low Energy (BLE), highlighting the adaptability of the chipset architecture. While the development process required significant effort, the outcome demonstrated how these chipsets can be tailored to meet specific and unique requirements far exceeding the limitations often found in alternative chipsets.

Success Stories: Industry Applications

Voler Systems has successfully utilized chipsets in several high-impact projects, illustrating the versatility and reliability of technologies across different sectors:

1. MedTech Innovations

Voler Systems utilized two chipsets from the provider to control a range of analog functionalities. This project underscored the operational transparency of the chipsets, enabling precise low-level functionality management crucial in complex medical devices.

2. Point-of-Care Testing

In another application, the provider's chipsets were integrated to handle sensitive analog frequencies for sample evaluation. These chipsets provided the necessary precision and stability for generating highly accurate measurements, showcasing their suitability for demanding biotech environments.

3. Wearable Technology

This product focused on developing wearable technology for non-invasive gastrointestinal motility measurement. The project benefited from the provider's energy-efficient solutions, critical in wearable devices where battery life and low power consumption are paramount.

4. Consumer Products

In the consumer sector, Voler Systems worked on a project utilizing one of the provider's chipsets. The project required the chipset to operate efficiently in challenging environments, such as controlling a motor within a moving device while maintaining reliable wireless communication. The robustness of the chipset allowed Voler to meet the product's complex requirements, including real-time motor control and inter-device communication in a dynamic setting.

5. Remote Patient Monitoring

For this project, Voler Systems leveraged a chipset from the provider paired with an advanced

analog front end. The project demanded exceptional power efficiency and precision in data sampling and wireless transmission. The well-documented and flexible chip capabilities enabled Voler's firmware engineers to optimize power usage, which achieved impressive device longevity—a critical requirement for the product.

Unmatched Developer Experience and Product Performance

Voler Systems' repeated success with the provider's chipsets can be attributed to the seamless integration experience these chips provide. From debugging complex memory issues to managing multi-thread architectures, the chipsets offer transparency that allows precise identification and addressing of problems to ensure products perform reliably and efficiently.

The provider's ecosystem doesn't just support development; it empowers Voler engineers to push the boundaries of chip performance beyond standard datasheet specifications. This flexibility is particularly valuable in custom applications where unique, sophisticated features are required.

Driving Future Innovation with Strategic Semiconductor Integration

The collaboration between Voler Systems and the leading chipset provider exemplifies how strategic partnerships can drive innovation across industries. By leveraging advanced chipsets, Voler Systems has developed state-of-the-art solutions that meet the demanding needs of MedTech, IoT, consumer, and other industries. This ongoing partnership is poised to continue delivering high-quality, customized technology solutions that set new product development and performance standards.

Voler Systems' use of these products is a testament to the power of combining technical expertise with superior semiconductor technologies, resulting in innovative products that address the complex challenges of today's electronic design landscape.

About Voler Systems

With more than four decades of experience in custom product design and consulting, Voler Systems is a leading Silicon Valley firmware design, electronics, software, and sensor development company. The company has built a solid reputation for reliable and innovative designs that meet the needs of modern businesses. With expertise in circuits, automation, motion control, and medical devices, Voler Systems is a leading provider of the underlying technologies and electronic device design for medical, wearables, IoT, consumer, and more.

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