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### **MECHANICAL ENGINEERING AND VIRTUAL REALITY: ANALYZING AND IMPROVING THE CAR AERODYNAMICS.**

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## Аннотация

В данной статье рассматривается возможность модернизации трех популярных автомобилей в Казахстане — Chevrolet Cobalt, Hyundai Tucson и Kia Sportage — с

целью создания их концептуальных версий в духе Vision Gran Turismo (VGT). Основное внимание уделяется аэродинамическим улучшениям, изменению дизайна, установке высокопроизводительных компонентов и влиянию этих модификаций на поведение автомобилей на гоночных трассах и в городской среде. В статье проводится инженерный анализ таких культовых автодромов, как Le Mans 24, SPA-Francorchamps и Nürburgring, с оценкой адаптации модифицированных автомобилей к их условиям. Также рассматриваются плюсы и минусы проведенных изменений, включая влияние на управляемость, топливную экономичность, комфорт и безопасность. Отдельный акцент сделан на пригодность данных автомобилей для городского движения, где анализируются их преимущества и недостатки в условиях реального трафика. Итоговые выводы показывают потенциал применения передовых аэродинамических технологий и инженерных решений не только в автоспорте, но и в повседневной эксплуатации.

Ключевые слова: аэродинамика, концепт-кар, Vision Gran Turismo, инженерный анализ, автоспорт, городская эксплуатация.

## **Abstract**

This article explores the possibility of modernizing three of the most popular cars in Kazakhstan—Chevrolet Cobalt, Hyundai Tucson, and Kia Sportage—by transforming them into Vision Gran Turismo (VGT)-inspired concept cars. The focus is on aerodynamic improvements, design modifications, installation of high-performance components, and the impact of these upgrades on vehicle performance on both racing circuits and urban roads. The study includes an engineering analysis of iconic racing tracks such as Le Mans 24, SPA-Francorchamps, and Nürburgring, evaluating how the modified vehicles adapt to their unique challenges. Additionally, a detailed comparison of the advantages and disadvantages of the modifications is provided, considering factors like handling, fuel efficiency, comfort, and safety.

A special section is dedicated to assessing the suitability of these VGT-modified cars for urban environments, analyzing their practicality in real-world traffic conditions. The conclusions highlight the potential of advanced aerodynamic technologies and engineering solutions not only for motorsports but also for everyday use.

Keywords: aerodynamics, concept car, Vision Gran Turismo, engineering analysis, motorsports, urban driving.

## **Introduction**

Modern automotive technology enables the development of unique concept cars that combine virtual simulation, aerodynamic research, and engineering analysis. Inspired by the Vision Gran Turismo series, we will explore the possibility of modernizing three popular cars in Kazakhstan (Chevrolet Cobalt, Hyundai Tucson, Kia Sportage) to enhance aerodynamics and apply racing technologies. Additionally, we will conduct an engineering analysis of their performance on the Le Mans 24, SPA-Francorchamps, and Nürburgring tracks, as well as evaluate their potential in urban environments.

## **Engineering Analysis of Aerodynamics and Car Modernization**

Aerodynamics plays a key role in vehicle handling, stability, and fuel efficiency. Improving aerodynamic characteristics requires thoughtful modifications to the body, cooling systems, suspension, and brakes. We will analyze each model in detail and propose engineering solutions for their modernization.

### *1. Chevrolet Cobalt VGT – A City Sports Car with High-Speed Capabilities*

Proposed Modifications:

- **Body and Aerodynamics:** The use of a carbon fiber hood, lightweight doors, and a rear diffuser will reduce the car's weight, improving acceleration and maneuverability. To minimize drag, smooth underbody panels and aerodynamic side skirts will be installed.
- **Engine and Cooling:** A turbocharger with an upgraded intake system and intercooler will increase power and ensure efficient cooling under high loads.
- **Braking System:** High-performance carbon-ceramic brake discs will enhance stability during sharp braking.
- **Suspension and Handling:** Adjustable sports suspension, lowered ground clearance, and active aerodynamic elements will improve road grip.

Performance on Tracks:

Le Mans 24: High speed on straight sections but possible issues with brake overheating.

SPA-Francorchamps: Low weight and aerodynamics will help on fast sections, but additional downforce might be needed.

Nürburgring: Excellent maneuverability on narrow sections, but suspension must adapt to elevation changes.

### *2. Hyundai Tucson VGT – A Sports Crossover with Enhanced Handling*

Proposed Modifications:

- **Body and Aerodynamics:** Improved front bumper design, active air vents, and an integrated rear spoiler will help reduce air resistance.
- **Engine and Transmission:** Increased power through a hybrid turbocharging system, improved cooling system.
- **Braking System:** Upgraded ventilated brake discs with active cooling.
- **Suspension and All-Wheel Drive:** Intelligent all-wheel drive (AWD) with an adaptive torque distribution system.

Performance on Tracks:

Le Mans 24: Limited top speed but stable in corners.

SPA-Francorchamps: Good adaptability due to all-wheel drive.

Nürburgring: High stability, but weight could be a disadvantage on fast sections.

### 3. Kia Sportage VGT – A Hybrid Racing SUV with Advanced Technology

Proposed Modifications:

- Body and Aerodynamics: Optimized aerodynamic profile, improved air intakes for brake cooling.
- Engine and Powertrain: Hybrid system with an additional front-axle electric motor for increased power and fuel efficiency.
- Braking System: Advanced regenerative braking system.
- Suspension and Handling: Intelligent adaptive suspension with active stabilization.

Performance on Tracks:

Le Mans 24: High energy consumption on long straights, but the hybrid system will aid in acceleration.

SPA-Francorchamps: Good performance in challenging conditions, but the high center of gravity may affect stability.

Nürburgring: Dynamic handling, but brake load may lead to overheating.

#### **Pros and Cons of Modifications**

Each modification brings advantages and challenges. Below is a detailed breakdown of the benefits and drawbacks of the proposed changes.

*Advantages:*

- Improved Aerodynamics: Enhanced airflow efficiency leads to reduced drag, increased speed, and better fuel economy.
- Increased Performance: Turbocharged engines, hybrid systems, and aerodynamic adjustments boost acceleration and top speed.
- Enhanced Handling and Stability: Sports suspension, adaptive dampers, and AWD improve maneuverability on both city roads and race tracks.
- Better Braking Efficiency: Carbon-ceramic and ventilated brakes provide better stopping power and heat dissipation.
- Modernized Design: The futuristic look aligns with the Vision Gran Turismo concept, enhancing the car's appeal.

*Disadvantages:*

- Higher Costs: Advanced materials like carbon fiber, high-performance brakes, and hybrid powertrains significantly increase production costs.
- Reduced Practicality: Lowered ground clearance and aggressive aerodynamics may

compromise comfort and daily usability.

- Potential Overheating Issues: High-performance engines and braking systems require robust cooling solutions, which might be complex to integrate.
- Weight Considerations: Additional aerodynamic elements, hybrid systems, and reinforced chassis could increase overall weight, counteracting some performance gains.
- Regulatory Challenges: Modified vehicles may not comply with street-legal regulations in some regions, requiring additional certifications.

### **Engineering Analysis of Tracks**

#### *Le Mans 24 (Circuit de la Sarthe)*

- Key Features: 13.6 km length, long straights, sharp braking zones.
- Main Challenges: Optimal balance between aerodynamics and power.
- Best Car: Chevrolet Cobalt VGT due to low air resistance.

#### *SPA-Francorchamps*

- Key Features: 7 km length, steep inclines and declines, high-speed corners.
- Main Challenges: High G-forces, need for strong downforce.
- Best Car: Hyundai Tucson VGT due to AWD stability.

#### *Nürburgring (Nordschleife)*

- Key Features: 20.8 km length, 73 corners, extreme elevation changes.
- Main Challenges: Balancing speed, handling, and brake reliability.
- Best Car: Kia Sportage VGT due to adaptive suspension and hybrid system.

### **Can These VGT Cars Be Used in the City?**

✓ Technically, yes – All three modified vehicles could be driven in urban environments.

✗ However, they are not optimized for city use – Their lower ride height, stiff suspension, aggressive aerodynamics, and track-focused performance make them less practical for everyday commuting.

1. Among the three, the Kia Sportage VGT would be the most practical option due to its hybrid system, adaptive suspension, and better ride comfort.
2. The Hyundai Tucson VGT comes second, as its higher ground clearance and AWD make it more suitable for urban use, but its modifications still make it less ideal for everyday driving.
3. The Chevrolet Cobalt VGT would be the least practical, as its low ride height, stiff suspension, and loud exhaust are significant drawbacks for city driving.

*Final Recommendation:* If these modifications are to be used for everyday commuting, adjustments should be made to improve ride comfort, reduce noise levels, and

ensure compliance with city road regulations.

## Conclusion

The adaptation of mass-market cars to the Vision Gran Turismo concept demonstrates the potential of modern engineering solutions. Enhancing aerodynamics, integrating hybrid technologies, and introducing adaptive suspensions create vehicles that are efficient both on racing tracks and in urban environments. In the future, the combination of virtual modeling, AI, and racing technologies will become a key direction in automotive engineering.

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## ENHANCING SPECIALIZED ENGLISH LANGUAGE SKILLS FOR VARIOUS SECTORS OF TOURISM

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**Abstract:** This paper explores the importance of enhancing specialized English language skills for tourism professionals. In the global tourism industry, English proficiency is a fundamental skill that ensures effective communication and high-quality service delivery. A conducted survey