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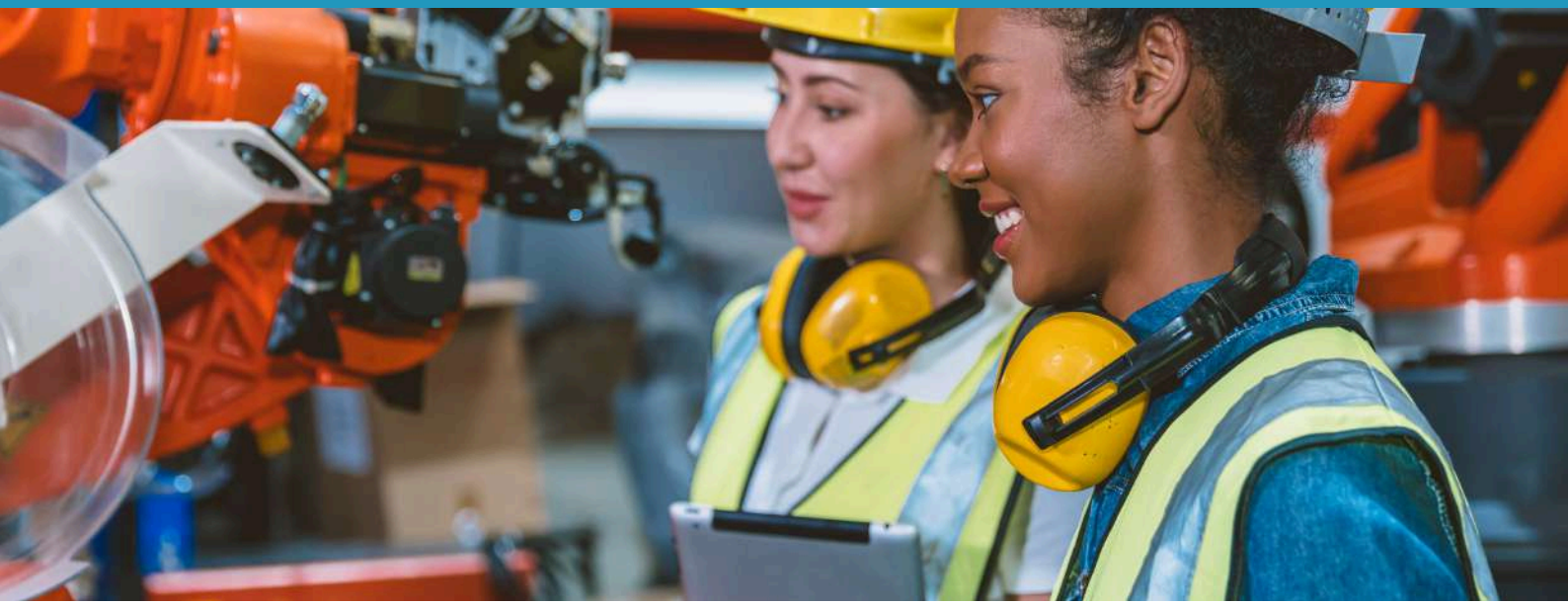
Digigear

DigiGEAR Project

DigiGEAR
Introducing Augmented Reality in the VET Sector with a focus on the Automotive Engineering

MAY 2026

NEWSLETTER



Shift gears into the future with DigiGEAR and electric vehicles!

Discover how DigiGEAR's **AR-powered training** is transforming **automotive engineering** and dive into the world of electric vehicles, where silent, zero-emission rides are redefining mobility.

DigiGEAR and electric vehicules are steering the future and helping the next generation of engineers master skills for the digital age.

The **electric vehicle drivetrain** represents more than just a replacement for the internal combustion engine - it's a **paradigm shift in automotive engineering**. By simplifying mechanics, maximizing efficiency, and embracing digital control, electric vehicles are **redefining what a car can be.**

For engineers, this means new challenges and opportunities in electrical systems, software development, and sustainable design. For drivers, it means a cleaner, smoother, and more responsive way to travel. And for the planet, it means a critical step toward reducing emissions and combating climate change.

Project Number 2023-1-IT01-KA220-VET-000159898

Co-funded by the European Union

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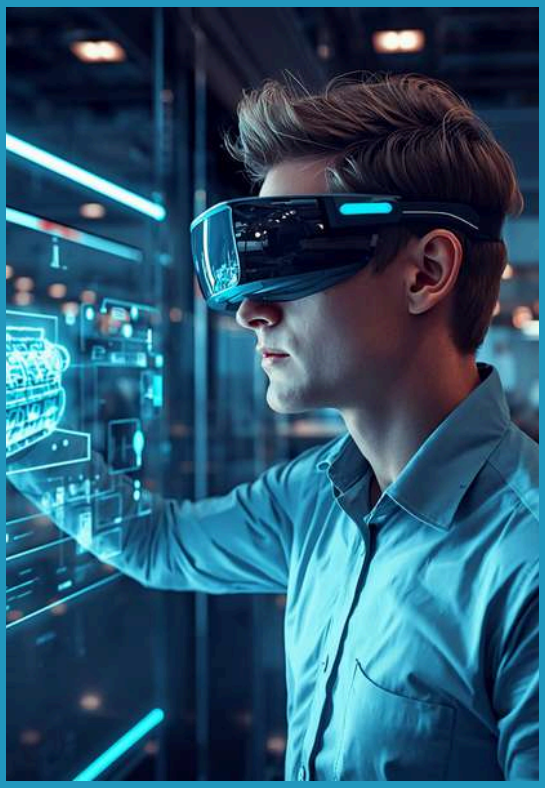
Augmented reality scenarios: the cornerstone of the project

These scenarios provide **immersive** and **interactive experiences** that make electric vehicle technology **easier to understand** than traditional teaching methods. Using the augmented reality application, learners can visualize the flow of energy: from power generation and charging stations to the inner parts of an electric vehicle, gaining a deep, practical insight into how these complex systems function together.

The training is structured into **two key areas**: **introductory lessons** that cover external electric vehicle infrastructure like charging stations, and **core lessons** that focus on the vehicle's internal components, including the battery, motor, inverter, and onboard charger.
In the augmented reality environment, users actively engage with interactive **3D models**, exploring components freely, identifying parts by their appearance, placing them in their correct positions within the vehicle, and connecting them to simulate real-world energy flow. For individual components like the battery or motor, learners can pinpoint key subparts in detailed 3D models, reinforcing technical knowledge through direct interaction.

By **merging cutting-edge augmented reality technology with hands-on training**, DigiGEAR is equipping the next generation of automotive professionals with the skills they need to thrive in the electric mobility revolution, ensuring a smoother transition to sustainable transportation.



🔧 **HELP US IMPROVE DIGIGEAR**
PARTICIPATE IN THE OPEN CONSULTATION
We are currently in the validation phase of the DigiGEAR training materials and AR platform, and your expertise is essential.
We invite VET trainers, educators, and automotive industry professionals to contribute to the evaluation of the DigiGEAR training package.
👉 **How to participate:**

- **Review the training materials**
- **Explore the AR application (available download for Android)**
- **Complete the survey (10–15 minutes): https://form.typeform.com/to/F0BnUSYk**

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Next Steps:

- **Developing and Testing the AR Platform**

We are prioritizing the continued development and rigorous testing of the AR platform, refining scenarios based on user feedback and technical assessments to ensure smooth operation, intuitive navigation, and educational effectiveness. Testing with real users from vocational education and training (VET) backgrounds will validate usability and learning outcomes, allowing us to optimize the platform for diverse learning environments.

- **Building the Moodle Learning Platform**

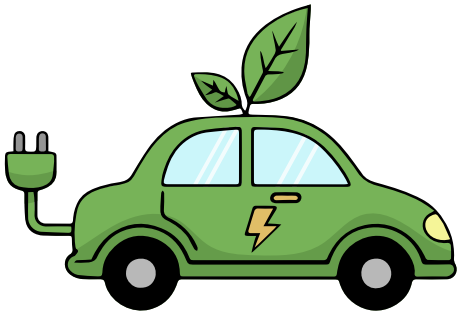
We are developing a Moodle-based digital platform as the central hub for the DigiGEAR training program, hosting course materials, quizzes, multimedia content, and forums to support collaborative learning. The platform will seamlessly integrate with the AR application, offering learners a structured pathway while enabling educators to track progress and tailor instruction. This approach ensures flexible, accessible, and scalable training that adapts to different learning paces and styles.

- **Pilot Testing and Training Phase**

We will deploy the full training program with selected VET institutions and learners to gather comprehensive feedback on content quality, user engagement, and effectiveness. Through pilot testing, we will identify and address any remaining issues, gaining valuable insights into real-world performance. Additionally, targeted training sessions for instructors and facilitators will be conducted to ensure smooth adoption and maximize the impact of the DigiGEAR program.

Moving toward a smarter, sustainable Future

These next steps are crucial in transforming DigiGEAR's vision into reality. By combining immersive AR experiences with a robust digital learning platform and thorough pilot testing, we are preparing to **equip the next generation of automotive professionals** with the skills and knowledge needed for the electric mobility revolution.



This integrated approach promises not only to enhance technical training but also to support a sustainable, tech-driven future in automotive engineering. Ultimately, DigiGEAR will help build a skilled workforce ready to drive the transition toward sustainable, electric mobility, **benefiting both the industry and the environment**.

Stay updated on the future of green and innovative vehicles on our platforms ! Don't hesitate to follow.

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