## Search for a Spanish Partner for a Bilateral R&D Project

| Organization | |
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| **Date of Request:** | 1/10/2025 |
| **Company name:** | TechnoWelle Egypt |
| **Contact person and title/ designation:** | Dr. Yasmeen Farouk, Government and Universities Relations Manager |
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| SECTION 1: Entity launching the partner search | |
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| *(Please give brief / to the point explanations. For more explanation on any point below, you may add a short paragraph as an annexure, with this document.)* | |
| Sector | Mobility SW, Industrial IoT, AI, Digital Design |
| Entity mission or core functions | **1- Software Development**<br><br>• Design and develop embedded software for automotive systems including ECUs (Electronic Control Units), ADAS (Advanced Driver Assistance Systems), connectivity, and infotainment systems.<br><br>• Deliver scalable Android Automotive solutions with seamless integration into vehicle and mobility ecosystems.<br><br>**2- Testing and Validation**<br><br>• Provide HIL (Hardware-in-the-Loop) and SIL (Software-in-the-Loop) testing solutions to validate vehicle performance, safety, and compliance |

with global regulations.

- Conduct functional safety testing (ISO 26262).

- Ensure mission-critical reliability for complex platforms through automated toolchains and agile test processes.

**3- Innovation and R&D**

- Advance AI-driven solutions for autonomous driving, predictive maintenance, energy optimization, and next-generation mobility platforms.

- Develop cloud-based ecosystems for over-the-air (OTA) updates, vehicle diagnostics, and fleet management.

**4- Industrial IoT Solutions**

- Build intelligent IoT platforms enabling smart factories, connected assets, and predictive maintenance in industrial environments.

- Provide secure, cloud-integrated frameworks for scalable monitoring, analytics, and control.

- Bridge automotive and industrial IoT to create cross-domain value in Industry 4.0.

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| | **5- Digital Design & Engineering**<br><br>● Deliver digital design services that span model-based development and UX/UI.<br><br>● Integrate virtual prototyping and simulation to reduce time-to-market and development costs.<br><br>● Support OEMs and suppliers in creating user-centric, future-ready digital experiences.<br><br>**6- Consulting and Support**<br><br>● Offer technical consulting on architecture, integration, and regulatory compliance for OEMs, Tier-1s, and deep-tech innovators.<br><br>● Provide training and enablement for engineering tools, safety standards, and emerging technologies.<br><br>● Deliver tailored support combining domain knowledge, agile delivery, and future-proof system design. |
| Date of establishment | 2021 |
| Ownership (if public and traded, add stock exchange and ticker symbol) | 100% Private owned |
| Total number of employees | 15 |
| Number of employees in R&D | 3 |
| Key products sold or services provided | ● Auto HIL Master: Automotive Hardware in the loop test bench<br>● Validly:ADAS Fusion Sensors KPIs Validation Software |

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|  | ● MODSAR: Product Supporting the development of AUTOSAR SWCs<br>● Safetime Checker: Concept Solution to validate ADAS's Safety backbone<br>● ANNO2: Data Labeling & Annotation Web-based Platform |
| Entity core technical competences | Software, Automotive, AI, HIL, FPGA |
| Key R&D programs and activities | 1. **AI and HIL Testing**:<br>   ○ Build advanced **HIL test benches** and incorporate AI techniques for validating EV and autonomous driving systems. |
| Examples of accomplishments | ○ Tier-1 supplier for premium OEMs like VW, BMW & Audi and for Tier-1 supplier: Vector, Magna and Continental.<br>○ Part of international technical consortium as active member in AutoSAR<br>○ Certifications: Automotive TiSAX, GDPR protection and ISO9001<br>○ Founded three sites in two countries and working on founding our 4th site in a third country.<br>○ Established a stable multinational working environment (five nationalities working at the moment by TechnoWelle Worldwide<br>○ Conducting trainings in ITI as social contribution to develop egyptian eco system and train new competences for the market |
| Company strategic orientation | ○ Innovation-Driven Growth.<br>○ Customer-Centric Approach.<br>○ Sustainability and Green Technologies.<br>○ Strategic Partnerships with automotive OEMs, Tier 1 suppliers, and technology providers.<br>○ Global Expansion.<br>○ Talent Development. |

| SECTION 2: Spanish Company Profile | |
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| *(Please provide a brief summary of the prospective partner company or organization. This summary may address some or all of the points below)* | |
| Profile of ideal technology partner | Embedded systems, Mobility, and Industrial IoT |
| Core technological competencies and expertise | Mobility, AI, IoT, Digital Design, Testing and Validation. |
| Other essential qualifications (e.g.: ownership, track records etc.) | N/A |
| If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details | N/A |
| If you are interested in collaboration: please specify details and other important information you want to share with a potential company | N/A |
| Interested areas of collaboration | <ul><li>Co-develop state-of-the-art **HIL and SIL test benches** for EVs and autonomous vehicles, industrial robotics, renewable energy systems, and smart infrastructure.</li><li>Integrate **AI-driven simulation** for predictive fault detection, automated test-case generation, and system optimization across domains.</li><li>Enable **IoT-based remote monitoring** and cloud validation to support distributed teams and fleet-wide testing.</li><li>Jointly build **IoT frameworks** for smart factories, connected</li></ul> |

| | assets, and infrastructure monitoring. |
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| Specific R&D contribution you are seeking/offering | AI & Data-Driven Engineering, IoT & Connectivity, Digital Design, Testing and validation, Sustainable & Smart Systems. |

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| **Name: Yasmeen Farouk Bakry**<br>**Date: 2/3/2025**<br>**Signature:** | **Seal:** |

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