

Search for a local Partner for a Bilateral R&D Project

Organization	
Date of Request:	2025/09/09
Company name:	Techbusiness (TB)
Contact person and title/ designation:	Arman Khazaei — Founder & Lead Inventor
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SECTION 1: Iranian Company Profile

(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.)

Business Sector	Robotics / FoodTech / Artificial Intelligence / Kitchen Automation
Company mission or core functions	Tech Business (TB) develops advanced robotic cooking systems (AI Chef) that combine robotic manipulation, embedded control (Arduino/ROS), NIR spectroscopy and AI planning to fully automate professional and commercial kitchen tasks — improving consistency, speed and food-safety compliance.
Date of establishment	Not yet officially registered (in process).
Ownership (if public and traded, add stock exchange and ticker symbol)	Not yet registered; will be privately owned under Arman Khazaei.
Total number of employees	Currently 2 (Arman Khazaei & Atena Gholamhoseini). Expansion plan: +5 employees in the next phase.
Number of employees in R&D	3 engineers and researchers (core R&D capacity already engaged).



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Key products sold or services provided	AI Chef — Single-arm robotic kitchen prototype (hardware + control software) Custom robotic automation modules for food preparation Consulting / integration services (ROS, motion planning, CAD/STL preparation, 3D printing)
Company core technical competences	<p>6 (DOF) motor control, with Python-based programming. AI Planner manages real-time decision-making and task execution.</p> <p>Sensors: NeoSpectra NIR spectrometer on the wrist for precise ingredient detection (e.g., salt, sugar, vegetables), along with touch and force sensors for grip control. Positioning encoders ensure accurate joint movements.</p> <p>Functionality: Capable of performing essential kitchen tasks such as cutting, stirring, moving, pouring, and combining ingredients. Single-arm operation limits fully independent dual-task execution.</p> <p>Integration: API allows communication between sensors, AI Planner, and control system for adaptive and autonomous operation.</p>
Key R&D programs and activities	Development and testing of AI Chef single-arm prototype (mechanical design → Gazebo simulation → prototype) Integration of NeoSpectra NIR spectrometer for ingredient detection Design and simulation of two-arm mobile model (next phase) Software development: AI cooking planner + perception modules
Examples of accomplishments	Mechanical base & major arm parts designed; elbow joint and major DOFs validated. Gazebo simulation of arm motion and basic task sequences completed. Arduino + Python motor control prototypes developed and tested. Investor one-pager, pitch materials and teaser assets prepared.

Company strategic orientation	Scale AI Chef from prototype to industrial pilots and commercial manufacturing. Seek strategic investors and government partners (priority: UAE, USA, Spain) for pilot deployments in professional kitchens, hotel chains and commercial food services; develop manufacturing partnerships for mass production
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SECTION 2: Partner of Interest

(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	An established industrial robotics integrator or manufacturer with experience in precision actuation, mass production, supply chain for robot components, and access to pilot sites in target markets (UAE / USA / EU). Preferably a partner with prior experience in food-industry automation or HORECA deployments.
Core technological competencies and expertise	Industrial-grade actuator & gearbox manufacturing Electronics production and system certification (safety standards) Systems integration for industrial kitchens (HACCP / food-safety compliance) Global distribution channels and after-sales
Other essential qualifications (e.g.: ownership, track records etc.)	Proven track record in commercialization and exports Experience with regulatory approvals and certifications for equipment used in food environments Capacity to support pilot installations and end-user training

If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	At this stage, we do not have existing partnerships with specific companies. Our goal is to collaborate with a company (or group of companies) that truly understands the magnitude of this project, shares our vision for entering international markets, and is committed to advancing and developing in the field of AI. We are open to establishing strong and strategic partnerships with organizations that recognize the transformative potential of this innovation.
If you are interested in collaboration: please specify details and other important information you want to share with a potential company	TechBusiness seeks co-development and co-funding for: (1) industrialization of the AI Chef arm, (2) pilot deployments in restaurant/hotel kitchens, (3) certification & scale-up. Willing to license mechanical IP or pursue joint-venture manufacturing depending on partner capability.
Interested areas of collaboration	Mechanical manufacturing, electronics sourcing, software integration, pilot site access, regulatory & certification support, distribution and after-sales.
Specific R&D contribution you are seeking/offering	Seeking: industrial actuators & housings, manufacturing engineering, certification expertise, pilot deployment partners, co-funding for scale-up. Offering: CAD/STM/IP for robotic arm, control software (ROS + Python), NIR-sensor integration know-how, prototype units for pilot testing.

Signature: I hereby submit this expression of interest to find a Spanish partner for a bilateral R&D project. Tech Business (TB) is ready to engage in detailed discussions and to share technical annexes and prototypes upon signing an NDA.

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