REGULUS
Engineering & Automation

Company Profile

REGULUS ENGINEERING & AUTOMATION

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Agenda

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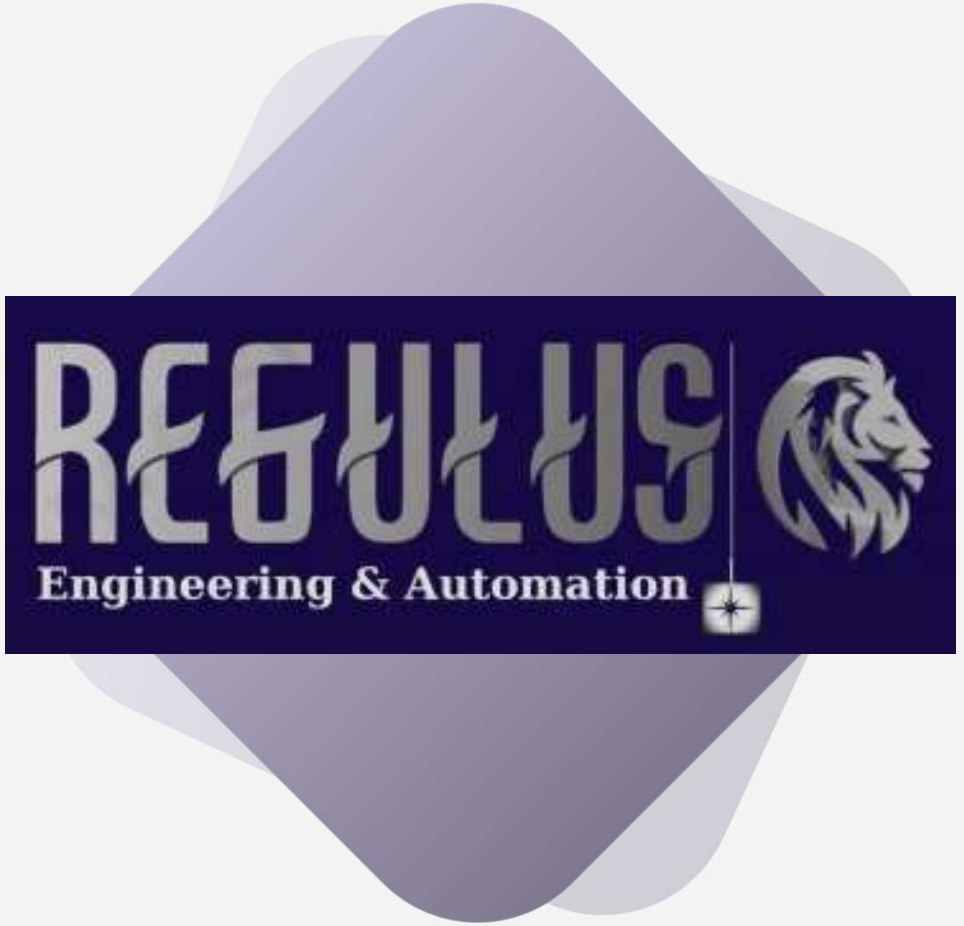
About Regulus

- was founded in 2020, with a staff of over ten years of engineering experience.
- By providing engineering solutions, it has taken its place in the sector by combining today's technologies, where innovative breakthroughs are rapidly increasing.



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Our Company

Who We Are?

Regulus Engineering

Our Company was established in 2020 with an experienced team to produce industrial technological solutions. As part of Regulus family, we specialize in quickly and effectively designing industrial solutions in industrial mass production fields, primarily in the automotive sector, and similar locations, and delivering turnkey projects.

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Our Mission and vision

Mission

to produce high-level solutions in Software and Automation. It is our mission to gather all the work we do under the roof of determination, sustainability, more productivity, reliability, innovation and creativity beyond expectations.

Vision

most basic vision is to carry our engineering beyond the age, to be a role model and to make it sustainable by creating a difference for a more technology-sensitive future, as an inspiration with our projects that will leave a mark on the world.

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Our Goals

Goal # 1

Completing Design and Engineering Services with Short-term and Permanent Activations.

Goal # 2

Delivering Innovative Solutions through Effective Project Management

Goal # 3

Ensuring 100% Customer Satisfaction.

Our Milestones

2020

"Establishing our company with an experienced engineering team for the first time."

2021

"Our company has established its position in the Industrial Automation sector with successful projects."

2022

"We have established our R&D department to further advance our Industry 4.0 applications."

2023

"With our effective management team, we have reached a business volume of over 3+ million Euros."

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Our Offered Services

Our teams interact with different sectors, especially the automotive industry.

- Line Installation Operations
- Automation and Software works
- Integration of New Technologies (Artificial Intelligence, Image Processing, Data analytics, etc.)
- Maintenance and Repair of Mass Production Lines
- Design and Engineering Services with short-term and permanent activations

2020-2021 Projects

- Automated Rear Axel Load

- Automated Windshield Loading

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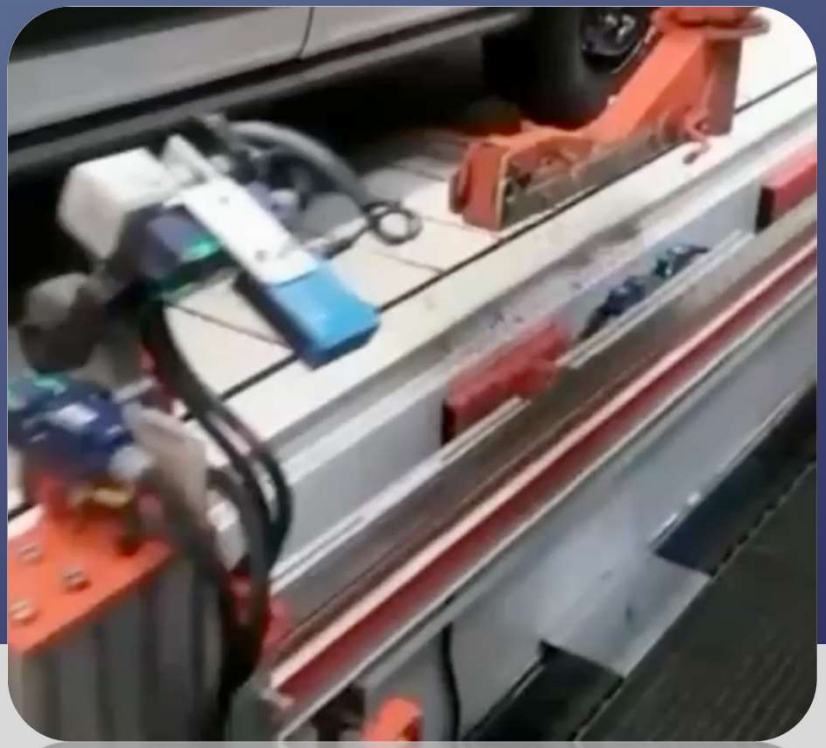
2020-2021 Projects



- Automated Unloading Sytem

- Automated Tyre and Wheel Loading

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2020-2021 Projects

- Automated Bushing Stamping
- Automated Rear Axel Load

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SKID CHANGER-FORD OTOSAN GÖLCÜK

"With this project, we have successfully manufactured, installed, and commissioned a skid change elevator in a crucial area of the factory known as the mezzanine or bridge, which is referred to as one of the most vital areas between the body production and paint shop areas. This elevator can replace new battery types for electric vehicles without any downtime."

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SVO LIFT –FORD GOLCUK BODYSHOP

"In appearance, this project resembled a standard elevator system, but the most challenging aspect was the necessity for communication among three different control units. Considering the technology of 20 years ago, coupled with the fact that despite numerous revisions over two decades, the electrical projects were not up to date, added another layer of complexity. Hence, although the installation of the equipment was completed in just two days, the full commissioning process took a much longer period, approximately a month."

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ELECTRICAL VEHICLE 4P BATTERY –FORD GÖLCÜK PAINTSHOP

"In this critical project for electric vehicle production, the design, installation, commissioning, and software development of the skid foot opening and closing stations are included in the gripper equipment, which covers the exchange of 3P and 4P battery types, as well as the refilling of battery trays. This involves retrieving battery trays from the production line, transferring them to the filling line, ensuring the verify of the battery trays on the skid, and securing and releasing the battery onto the skid."

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RIM & TIRE CONVEYOR LINE-FORD YENİKÖY ASSEMLY SHOP

"This project enables the seamless and flexible transportation of tires and rims to the production line in sync with the information obtained from the production vehicle system. The 450-meter-long conveyor system consists of automatic tire transport, automatic rim transport, automatic valve insertion, transfer of tire and rim assemblies to and from the mezzanine, two dual-arm elevators for lifting and lowering, plastic conveyors with different carrying capacities (30-20-11-6-5-1), automatic spare tire rotation equipment, and automatic sorting equipment."

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CAL (CUSTOMER ACCEPTANCE LINE)-FORD YENİKÖY QUALITY

"In this project conducted with our foreign business partner SFI GMBH, the conveyor system, which was installed using plastic belt technology, had its electrical and software components entirely handled by our company."

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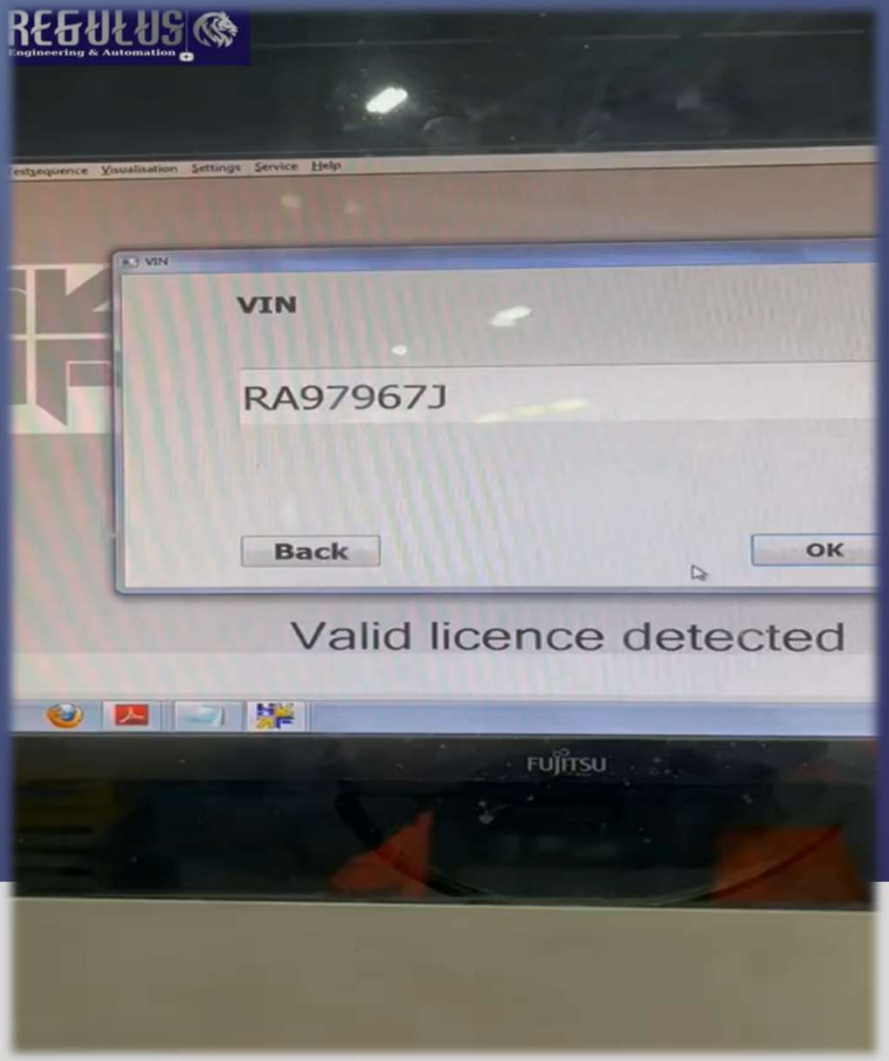
ROLLTEST RENOVATION -FORD İNÖNÜ



"The founding company, which is a foreign supplier, has gone bankrupt, but through reverse engineering, both the control unit and computer programs of the equipment have been discovered, and two new truck types have been added to successfully conduct numerous required tests. With this project, we have enabled the successful production of different truck types in our country by dissecting the minds of German engineers and decoding their equipment."

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VIN NUMBER DETECTION-FORD GOLCUK BODYSHOP

"In this project, which is one of our Industry 4.0 applications, the VIN number on the vehicle chassis is read to ensure control with the information obtained from the production vehicle system. If there is an error the warning system is activated, and the error is automatically assigned to the quality system (QLS). If the received information matches the expected data, the system proceeds to the specification control (character height, width, slope, distinctiveness, spacing between characters, performed for each character). Machine learning is utilized to classify error modes. Error modes include unreadable characters (presence of label, marking, poor strike). This project, which requires regulation, has been completed and archived in the completed projects folder."

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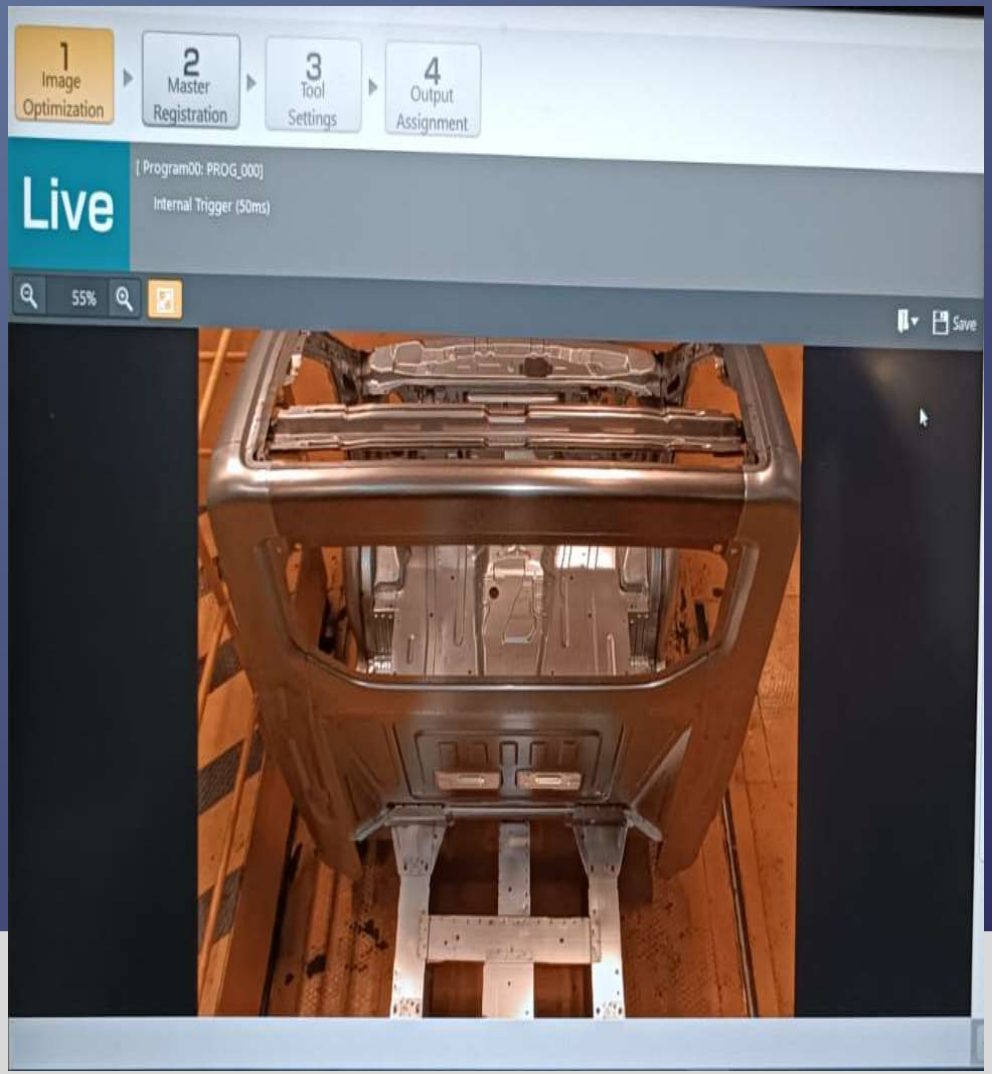
SKELETAL ERROR PROOF SYSTEM-FORD GOLCUK BODYSHOP



"In this Industry 4.0 project, initially developed for a new vehicle model and later extended to all vehicle types, the comparison of parts used in the vehicle with data obtained from the production vehicle system is performed. This comparison utilizes previously trained machine learning models to determine whether the parts belong to the specific vehicle type or not. This automated system effectively eliminates the potential risk of errors, ensuring accurate identification and allocation of parts to the appropriate vehicle type. "

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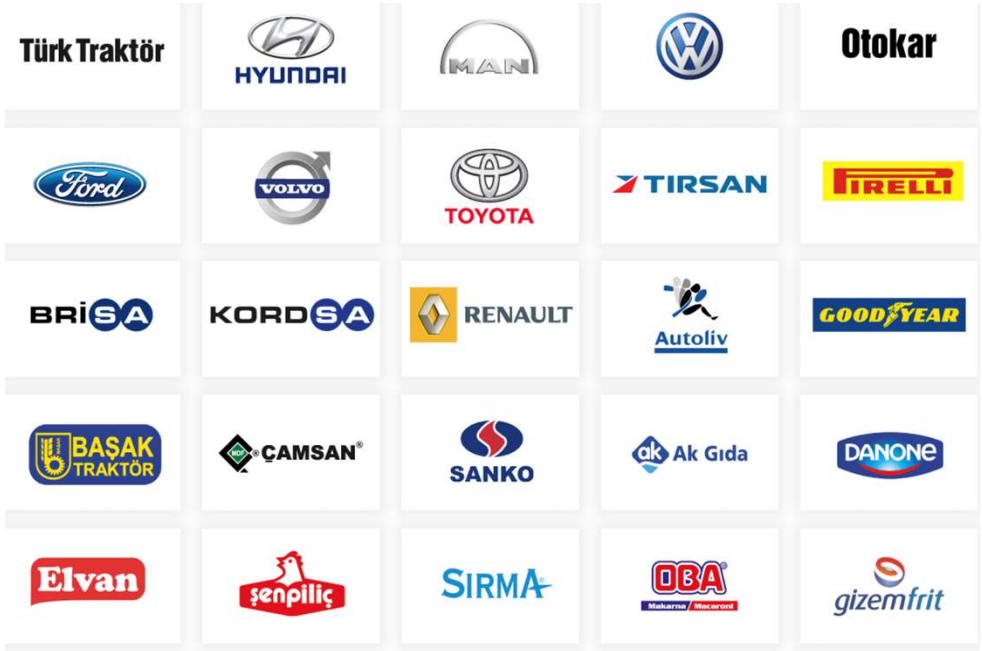
OUR REFERENCES



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