kenotom.com

# KENOTOM

EMBEDDED
ENGINEERING
EXCELLENCE

Service provider for Embedded Systems & Industrial Automation



Tilemachos Matiakis, Co-founder and technical director

# Company Overview

Kenotom launched in 2014 with a team of 2 engineers and the first customer in the automotive industry. The team keeps growing constantly, gathering expertise and exceeding today 130 people.

| | |
|---|---|
| **Description** | Engineering services provider for Embedded Systems & Industrial Automation |
| **Location** | Thessaloniki, Greece |
| **History** | Founded in 2014 |
| **Team size** | Over 130 employees |
| **Clients** | Include major Tier-1 Automotive suppliers |

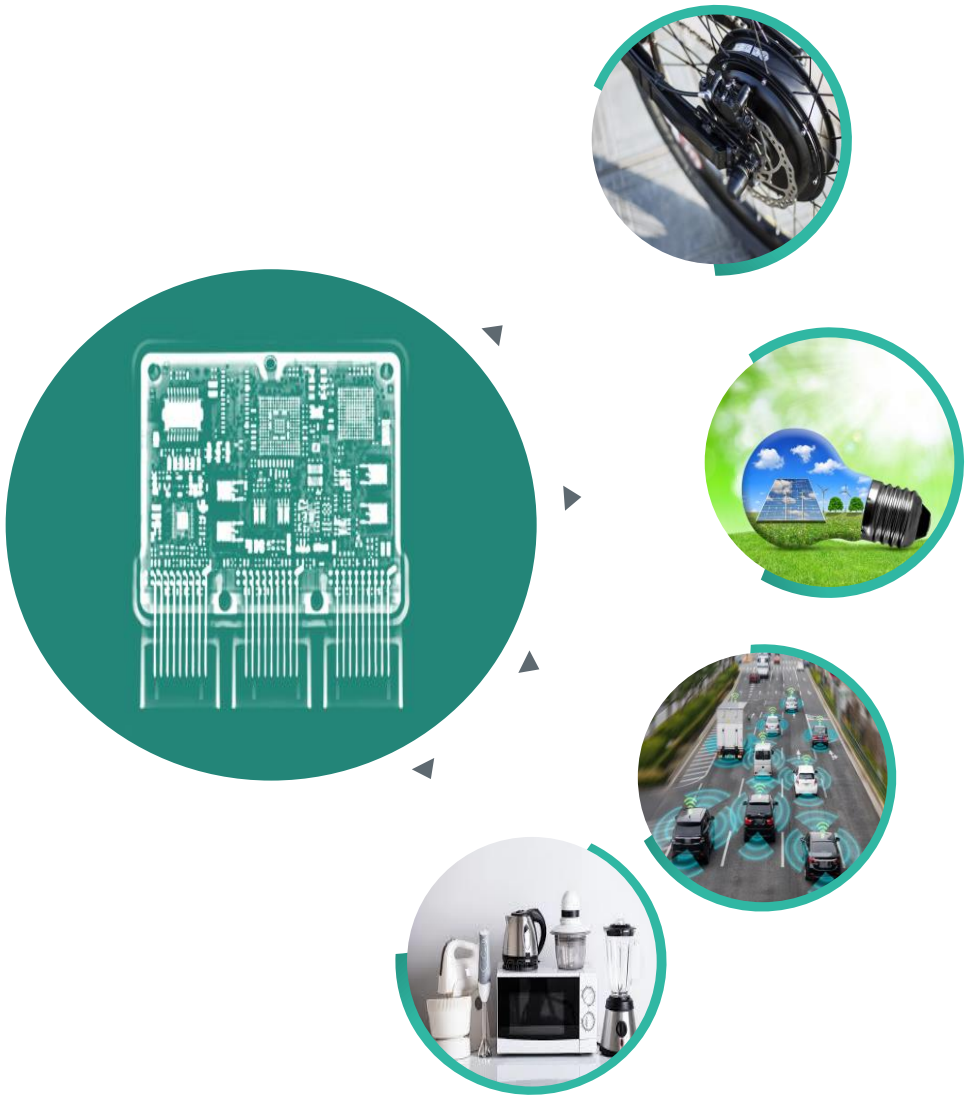


# Embedded Systems

*Definition*

*An embedded system is a computer system with a dedicated function within a larger mechanical or electrical system, often with real-time computing constraints. It is* ***embedded*** *as part of a complete device often including hardware and mechanical parts."* – Wikipedia

98% of all microprocessors are manufactured for use in embedded systems!



# KENOTOM Industries and Application Areas



## INDUSTRIAL AUTOMATION

Embedded systems development.



## MEDICAL

Software and component tests.





## AVIATION

Design, development and commissioning of control panels for testbenches.

## AUTOMOTIVE 90%

Development and validation of **Powertrain**, **Interior** and **ADAS** ECUs and tools.

# KENOTOM in the Automotive industry




OEMs

Tier 1 suppliers
ECUs, software, mechanics, etc

Continental
MAGNA

philotech
FEV

Tier 1 engineering service providers
hardware, software, testlabs, etc

KENOTOM
EMBEDDED ENGINEERING EXCELLENCE

# Our Partners

KENOTOM has established a significant customer base including 2 of the top 5 Tier 1 automotive electronics suppliers.

## Automotive References

vitesco TECHNOLOGIES

Schaeffler powertrain

MAGNA

ESG

philotech

FEV

## Non-Automotive References

FFT

Razorcat

embeX Your embedded experts

# Core Competencies - Development

## Basic Software Development

AutoSAR components

MCAL, ECUAL, SL

MISRA compliant code

ISO26262 compliant signal capture

Special purpose CDDs

3rd Party SW configuration and integration

Infineon and ST µCs

ARM, PowerPC and TriCore architectures

## Application Software Development

Control, automation, diagnostics and safety of electric, mechanic and hydraulic systems

Safety relevant automotive powertrain applications

Interior and exterior lighting

Plug & charge, ISO15118

C, C++, Simulink/Targetlink

## Industrial Automation

Design, setup and wiring of control panels

Model based software design and development

## Requirements Engineering

Stakeholder request analysis

System, software and safety requirements, architecture and design

FMEA

## Automotive Security Solutions

Autosar crypto stack, cryptographic services, key management, TLS protocol

## Electronics Design

PCB Design

Spice Simulations

Worst Case Analysis

Component and IC Selection

Small Scale Assembly

# Core Competencies - Validation

## MiL, SiL and HiL Testautomation

Complete test automation solutions

Basic, Application SW and system tests

Testplan, regression test tun

Analysis of test results

AutomationDesk, ECUTest and

customer specific python-based platforms

## HiL Commissioning

HiL specification, setup and installation

Dspace, National Instruments and

Beckhoff based HiLs

## Unit Test and Testautomation

Unit testing based on requirements

Statement, branch and

MC/DC coverage analysis

Test automation with various tools

## Systems Modelling for MiL, SiL, HiL

Electric, mechanic and hydraulic systems

Replication of ECU functionalities

Simulink and Labview

## Testautomation of ADAS Functions

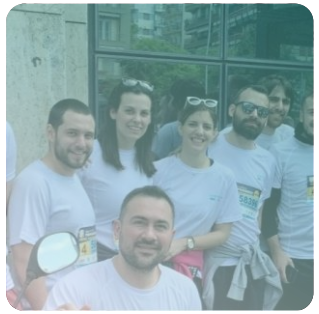
Scenario based test automation solutions of

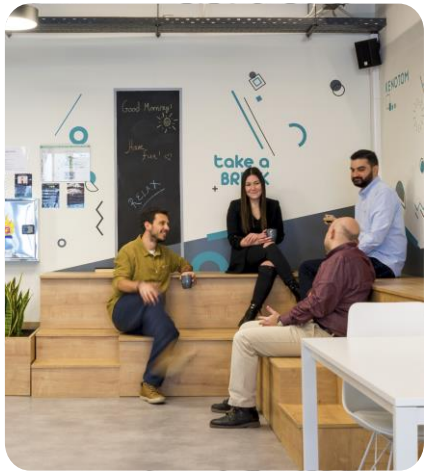
parking trajectory generation

## Vehicle level diagnostics

Analysis of trace data of vehicle

driving cycles and testbenches










# Corporate Culture

As an engineering service provider, we consider our strength to be our people.

We provide our team with excellent working conditions, challenging projects, continuous trainings and open communication.

Team bonding events such as sports activities, excursions etc. enforce the relationship among employees.

The high retention rate proves the team satisfaction.

# Our Advantages for our People

**Projects that matter:** Mission critical, on cutting-edge engineering technical fields

**Growing fast:** Significant potential for personal growth

**Training:** Extensive training in the beginning, continuous trainings afterwards

**Fun and easygoing.... but 100% professional**

**Team spirit:** Everyone counts

**European working standards**

# Collaboration with Universities

## Aristotle University

School of Electrical & Computer Engineering

School of Mechanical Engineering

## International Hellenic University

Department of Information and Electronic Engineering

Department of Computer, Informatics and Telecommunications Engineering

Department of Industrial Engineering and Management

## University of Thessaly

School of Mechanical Engineering

## Democritus University of Thrace

Department of Electrical & Computer Engineering




Kenotom has been contributing and collaborating with the above-mentioned educational institutes providing:

- *Internships – 20% of the team originates from internships*
- *Diploma Theses*
- *Sponsorships*
- *RnD Projects*
- *Consultants in MSc programs*



THANK YOU

KENOTOM

Embedded Engineering Excellence

www.kenotom.com

## Contact Information

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