



IAMAttek

TECHNOLOGY IS OUR CHALLENGE

Company Profile 2019

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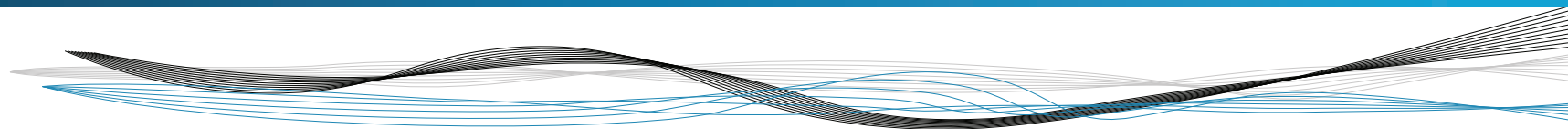
Our strengths



IAMAtek is an Italian innovative start-up that was born in 2019. The company's know-how is based on the applied research activities and experimental development, started by the company's founding members. IAMAtek specializes in design, manufacturing and marketing of high-tech antennas, microwave, mmWave devices and systems, as well as ICT and electronic systems.

Why choose IAMAtek ?

Besides the top technology we can help to handle and solve the customer's needs in applied electromagnetism and electronics in the best possible way. We will follow every step, from the design and system implementations to the final results.



Our Mission

With the customers
to achieve the
excellence.

Our Vision

Innovation to
look beyond.

Our Value

High performance,
passion to win,
immagine the impossible.

Technology is our challenge

Management team

Luciano Mescia Co-Founder, CTO

Is an Associate Professor in Electromagnetic field at Polytechnic University of Bari (Italy). He performs industrial and academic research on novel planar, monopole, spiral, array and conformal antennas for 5G, wireless, aerospace, automotive and e-health applications as well as studies on microwave devices.

Moreover, he is involved in several research activities pertaining the analysis and synthesis of novel dielectric lens antennas for wireless applications.

His research has resulted in over 150 publications in international journals, conference proceedings, and book chapters.



Claudio Maria Lamacchia Co-Founder, CEO

Received the Masters' degree in electronics engineering at Polytechnic University of Bari (Italy). His research interests include antenna design as lens antennas, UWB Antennas, signal integrity and electronics for industry. In April 2017, he joined The Antenna Company (The Netherlands) during which he worked on the design and full-wave characterization of supershaped printed monopole antennas. His thesis work was presented at the 2017 IEEE International Symposium on Antennas and Propagation.



Michele Gallo Co-Founder, SRO

Received the Masters' degree in electronic engineering in 2004 and the Ph.D. in electromagnetic field in 2008. From 2010 to 2018 he worked as antenna engineer in Calero Antenne S.p.A designing filters and innovative antennas for automotive applications. His research interests include the design of multiband/broadband antennas, array and optimization algorithms for electromagnetic applications.



Scientific Cooperation

Linking with academic world

National

IREA-CNR, Napoli; Università di Messina; Università degli Studi di Lecce; Università degli Studi di Palermo; Sapienza Università di Roma, Istituto Italiano di Tecnologia; Università Politecnica delle Marche; Università di Cosenza; Università degli studi di Cagliari; Nanotec Lecce.

International

Università di Lione; Università di Renne; École Nationale d'Ingénieurs de Brest; Université du Maine, Le Mans, Francia; Université de Bourgogne; CEA Arpajon France; Université de Toulouse, France, University of Antwerp, Belgium; Institute of Cybernetics, Tomsk Polytechnic University, Tomsk, Russia; Lubjana University, Eindhoven University (TUDelft), the Netherlands; IPAS- Institute for Photonics and Advanced

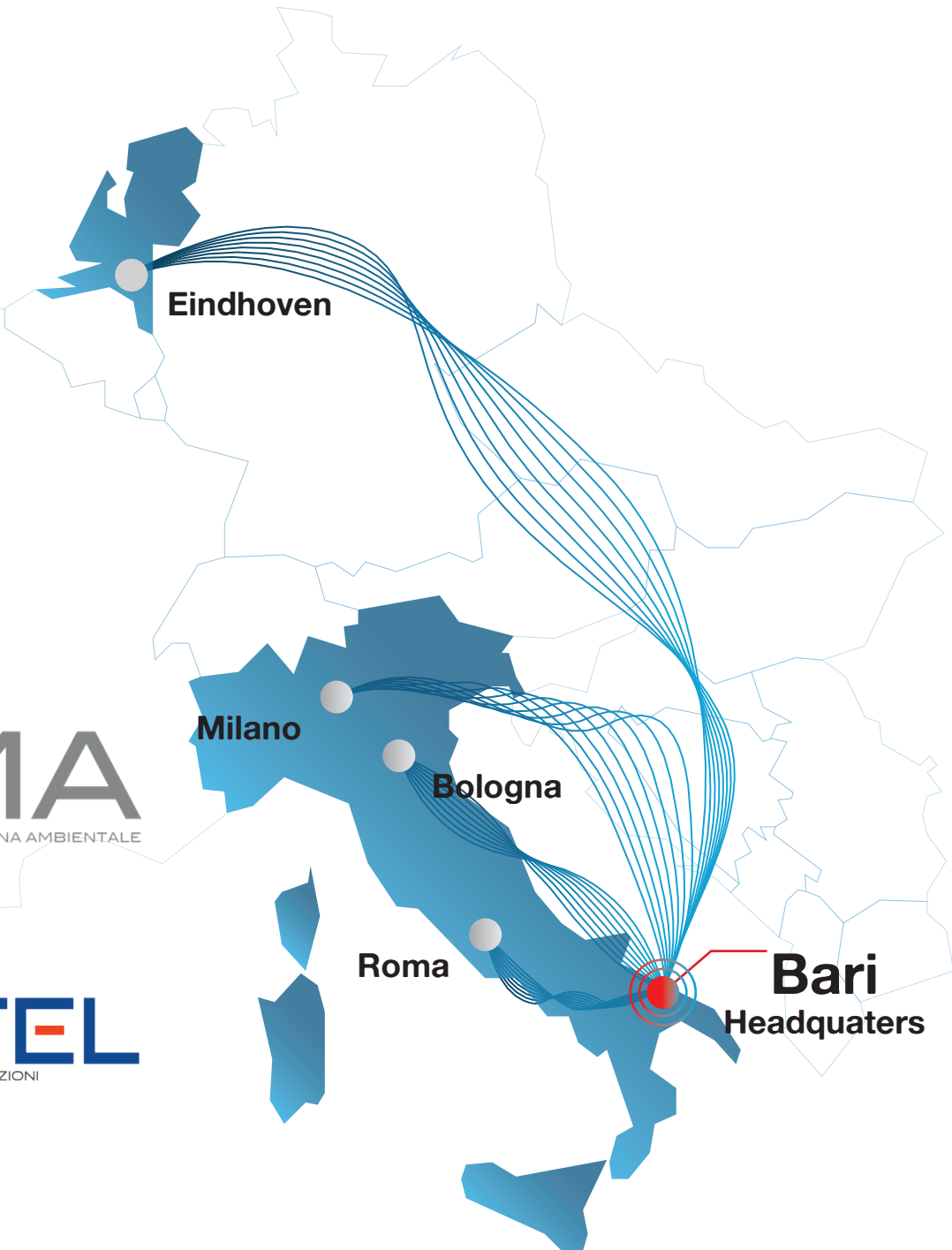


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Collaborations

Our Partners

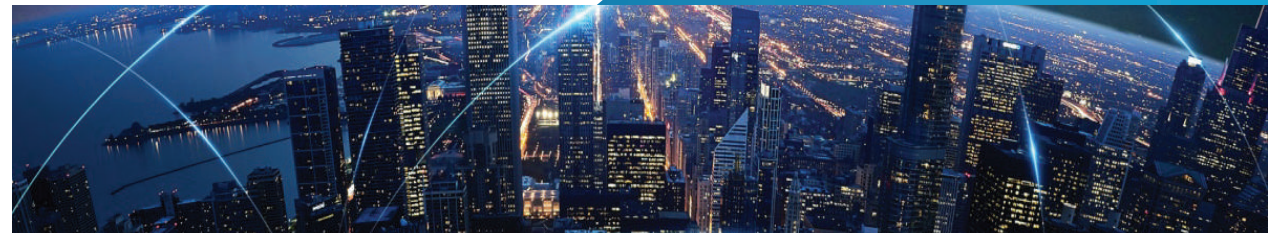


Global trend increases the demand of electromagnetic technologies

Food processing
and
Agriculture



IoT, 5G
and
smart city



Defense
and
new horizons

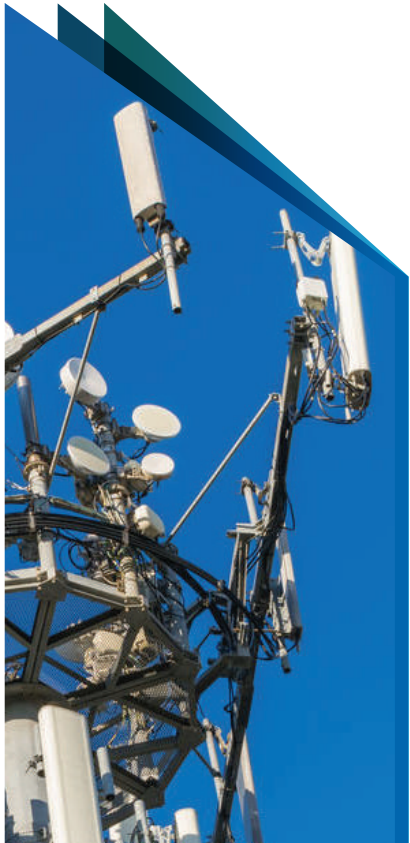


Industrial wireless
and
4.0 Industry

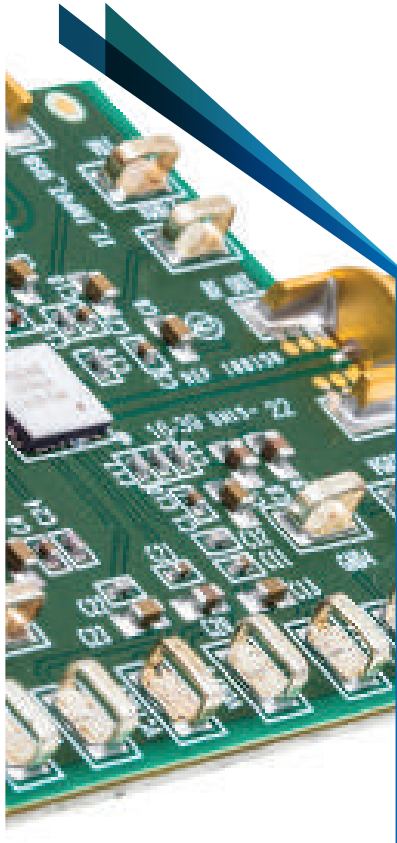


Our target market

Company is mainly focused on



Antennas



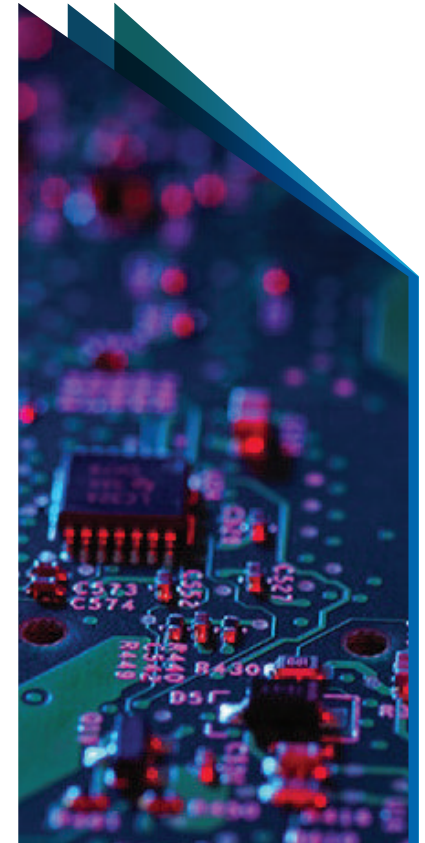
RF & Microwave System



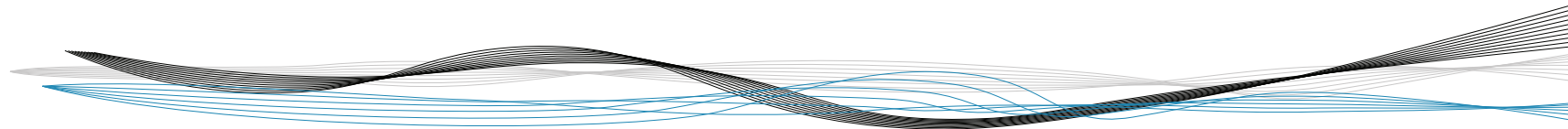
Computational Electromagnetics



Pulsed Electric Field Technology

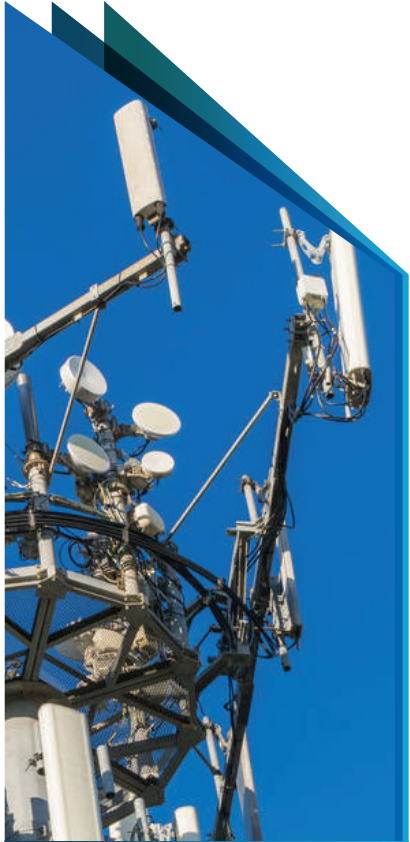


Electronic Systems



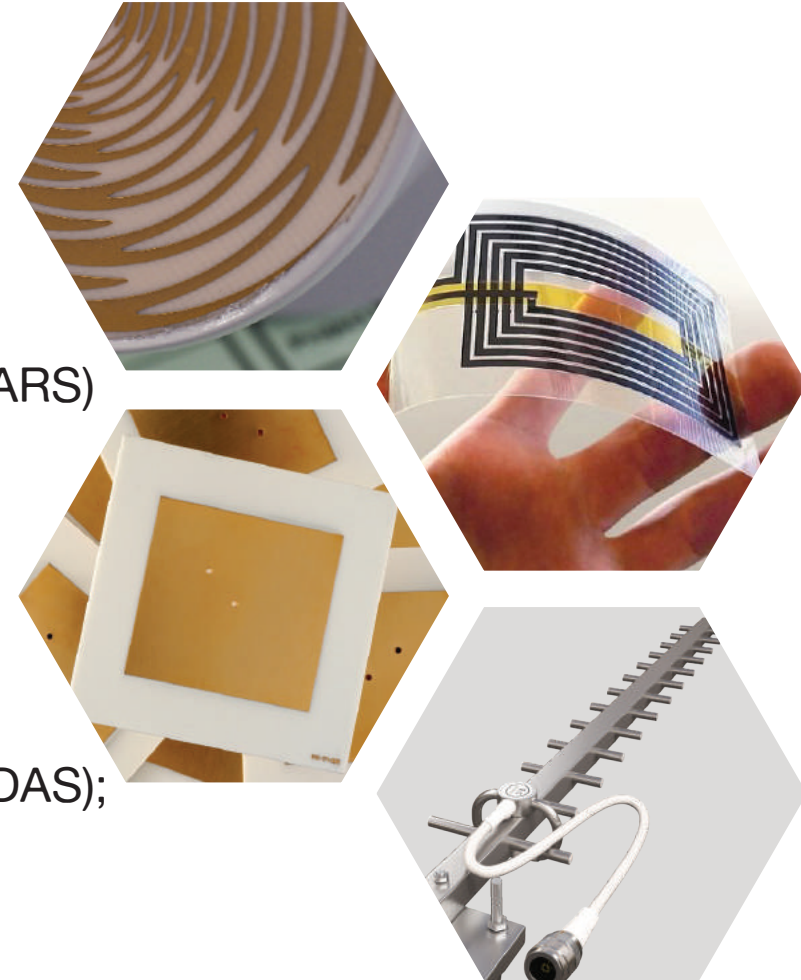
Antenna applications

Main challenges



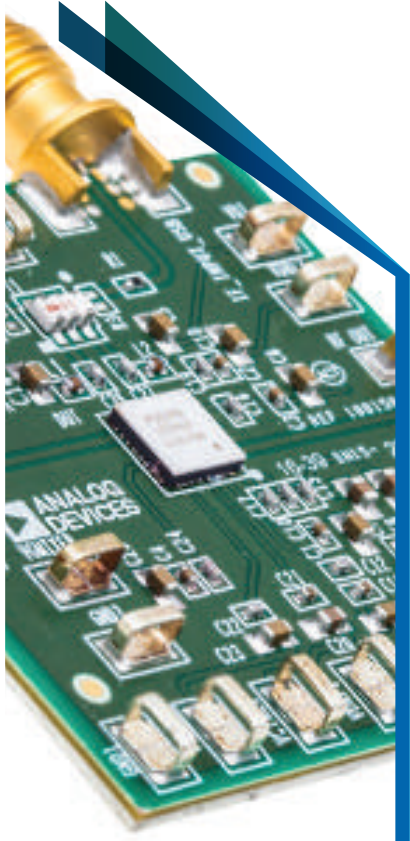
Antennas

- UWB technology;
- WiFi 802.11.ay;
- 5G, MIMO, IoT and mobile;
- Satellite Digital Audio Radio Service (SDARS)
- Diigital audio broadcasting (DAB);
- Wearable and textile;
- M2M and V2X technology;
- Radiolocalization;
- Advanced Driver Assistance Systems (ADAS);
- Body area network (BAN)



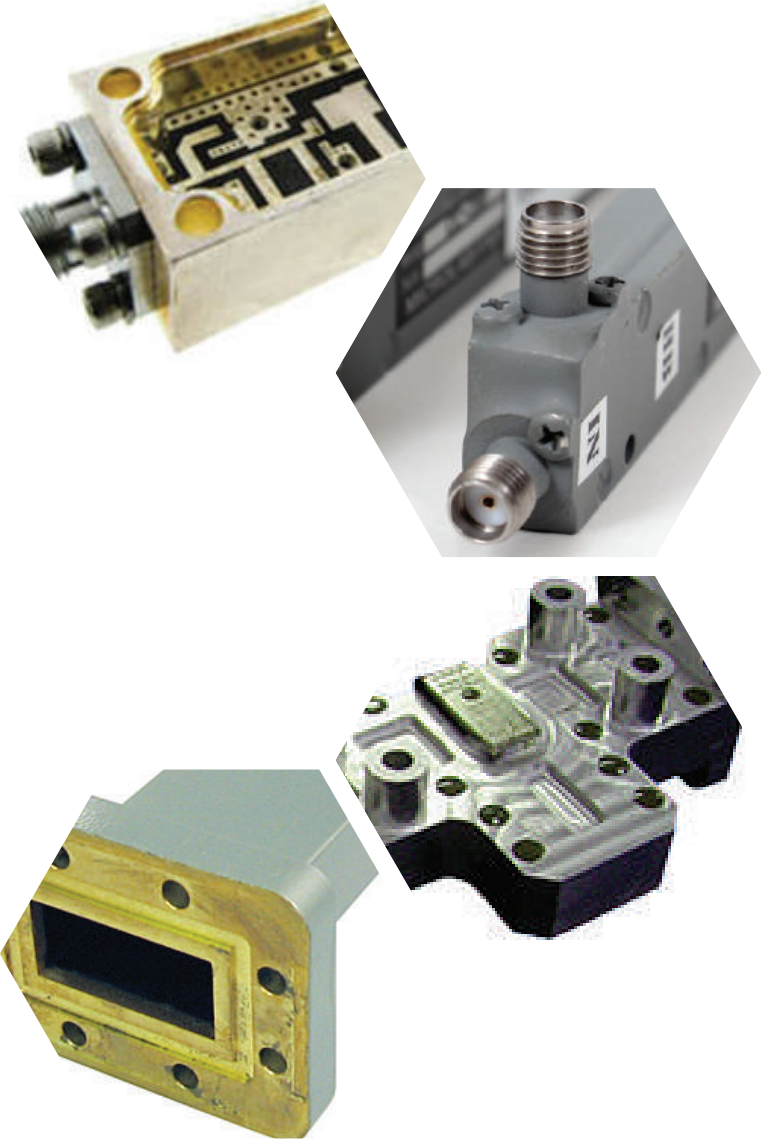
Microwave applications

Main challenges



RF & Microwave System

- mmWave technology;
- Food processing;
- Energy Harvesting;
- Sensors;
- Electromagnetic absorbers;
- Electromagnetic coverage;
- Radio-over-fiber;
- Industrial wireless systems;
- Microwave heating.



Design facilities 1/2

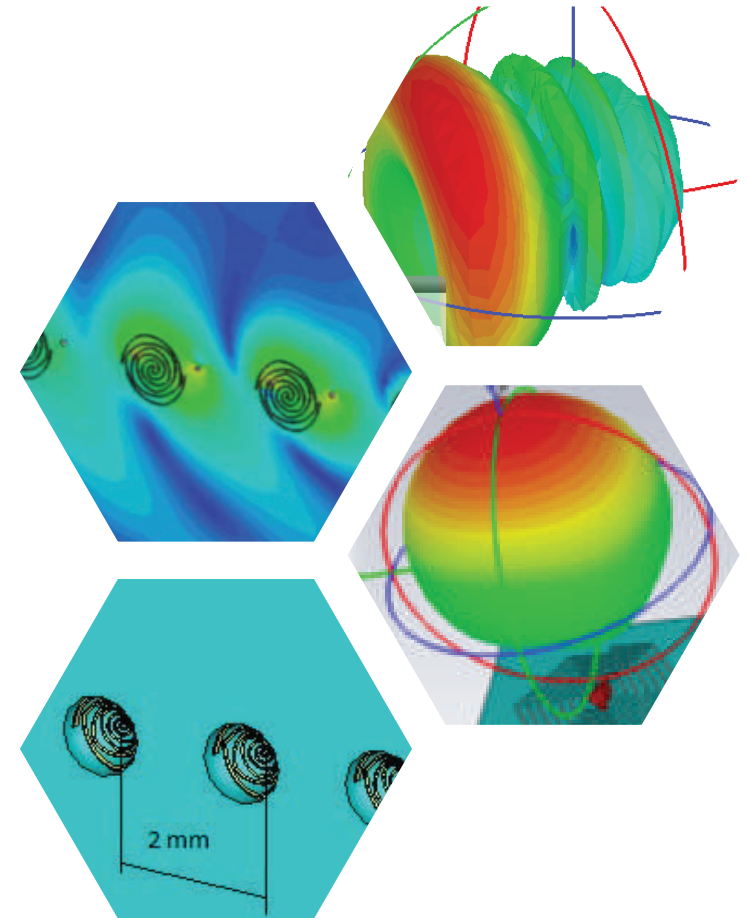
Software knowledge



Computational
Electromagnetics

CST studio suite

- Time and Frequency Domain;
- CAD;
- Home made user interface with the Matlab suite;
- Deep knowledge of formula skills to design special antenna geometry;
- CST PCB studio;
- CST EMC Studio.



Design facilities 2/2

Software knowledge



Computational
Electromagnetics

HFSS

- High frequency;
- CAD;
- Deep knowledge of formula skills to design special antenna geometry;

Comsol Multiphysics

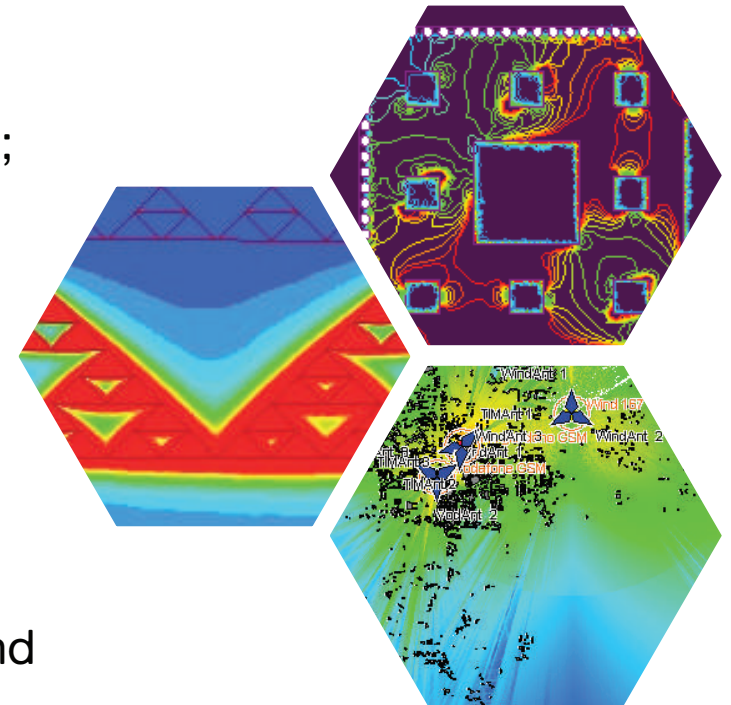
- AC/DC;
- Heat transfer;
- Optics and Radio frequency;
- Mathematics;
- Livelink;

WinProp

- Indoor, outdoor, urban, suburban and rural scenario;
- Ray tracing electromagnetic models;

Matlab

- Home made code in Matlab and C/C++.



Pulsed electric field applications

Main challenges



Pulsed
Electric Field
Technology

Biomass processing

- Molecules extraction;
- Biogas and biofuel production.

Food processing

- Preservation of nutritional and sensory properties;
- Extraction of selective targeted molecules;
- Extraction enhancement of colorants, sucrose, polyphenols, phytosterols, anthocyanin, tocopherols, carotenoid, vitamins, from grape wines, fruit and vegetables;
- Enhancement of the extraction yield of juices from fruits, and vegetables as well as of oil from olive and sunflower seeds.

Micro-organism inactivation

- Non thermal pasteurization and sterilization;
- E. Coli inactivation in liquid food;
- Shelf life extension.



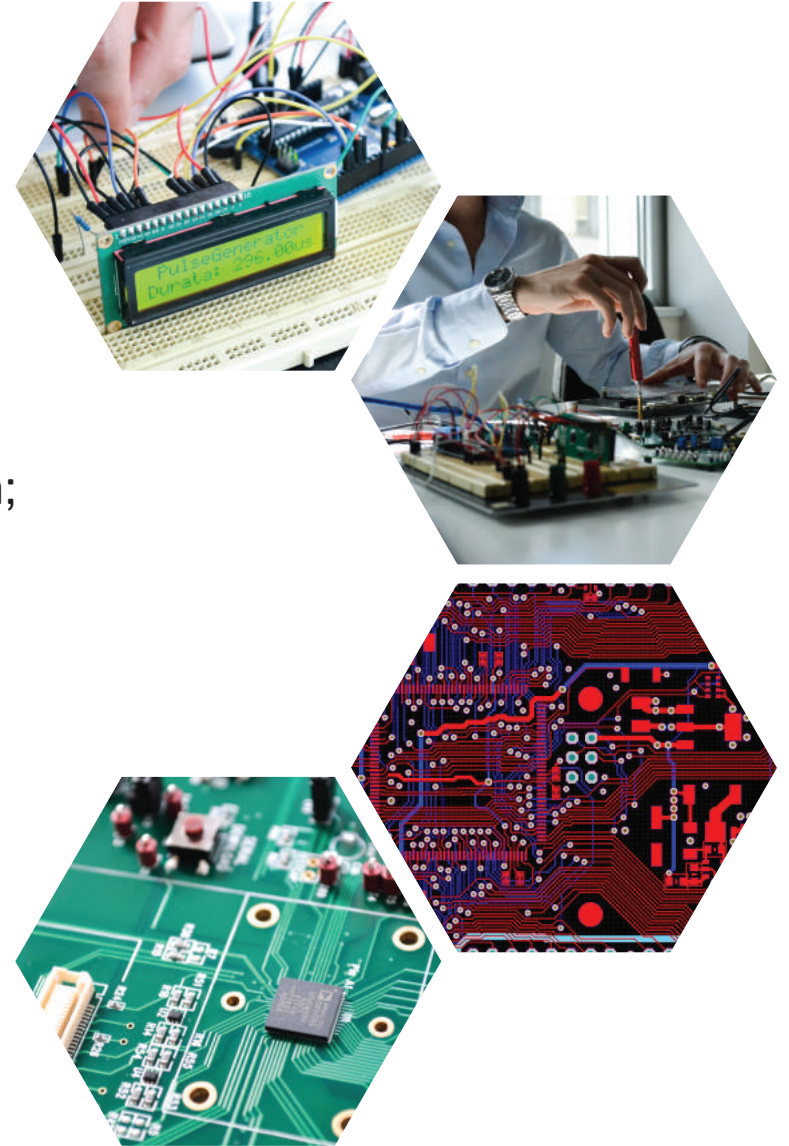
Electronic applications

Main challenges



Electronic
Systems

- Wearable technology;
- Embedded systems;
- High and low frequency PCB design;
- Signal and power integrity;
- EMI/EMC;
- High voltage and power technology.



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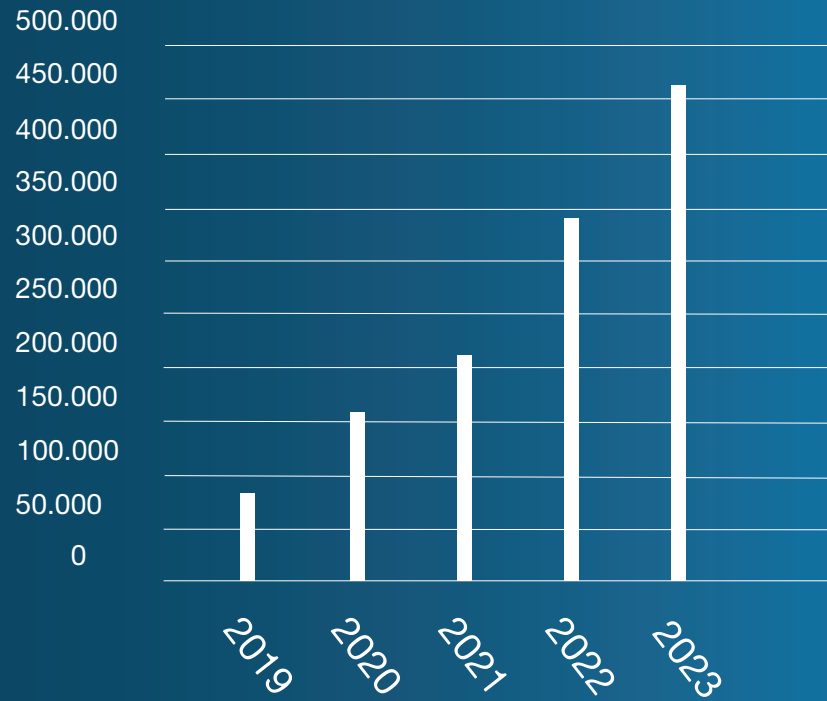
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IAMAtek is own growth path

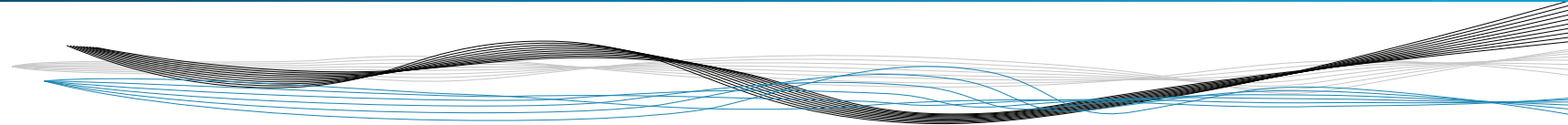
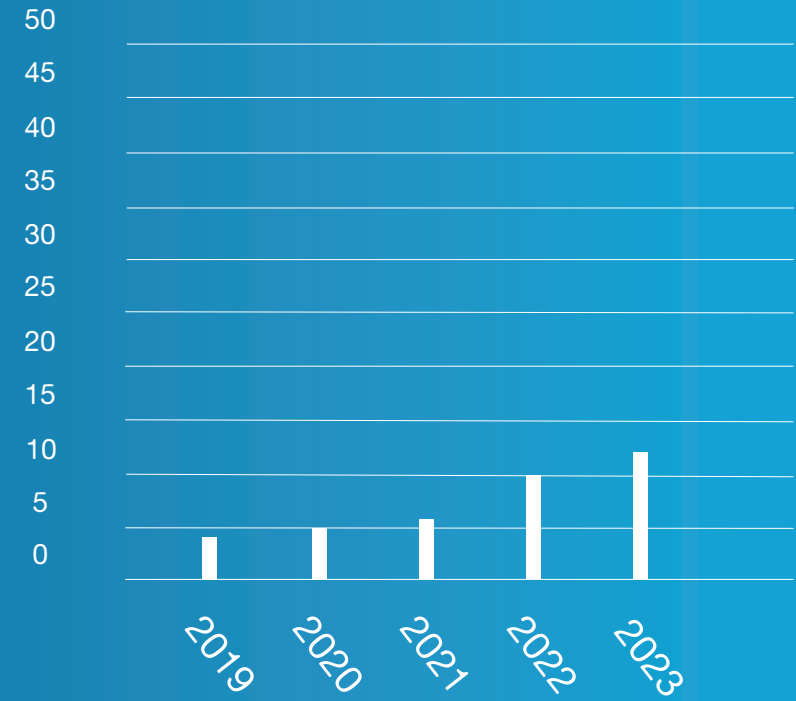
How we see our future



Turnover intention



Employers intention



Building a high level working team

We are looking for talents



**Antenna design
engineer**

**Product
manager**

**HW RF
engineer**

**FPGA & Embedded sys
engineer**

**Application
engineer**

**Computer science
engineer**



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Be respectful, sustainable and empathic

Build a company culture



The main strategy characterizing **IAMatek** is based on the innovation technology. Moreover, the company will be considerate towards **people** and **environment**. Cooperative leadership provides the basis for our actions. Working as a global team, we can help our customers to achieve success.

We understand **sustainability** as the symbiosis between **economy**, **ecology** and **social engagement**, continuously respecting and recognizing the **importance of cultural diversity**.

Find us on social media



facebook



Instagram



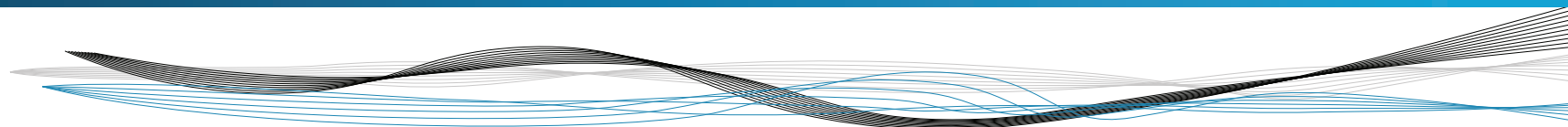
Linkedin



Twitter



You Tube





To technology and beyond!

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