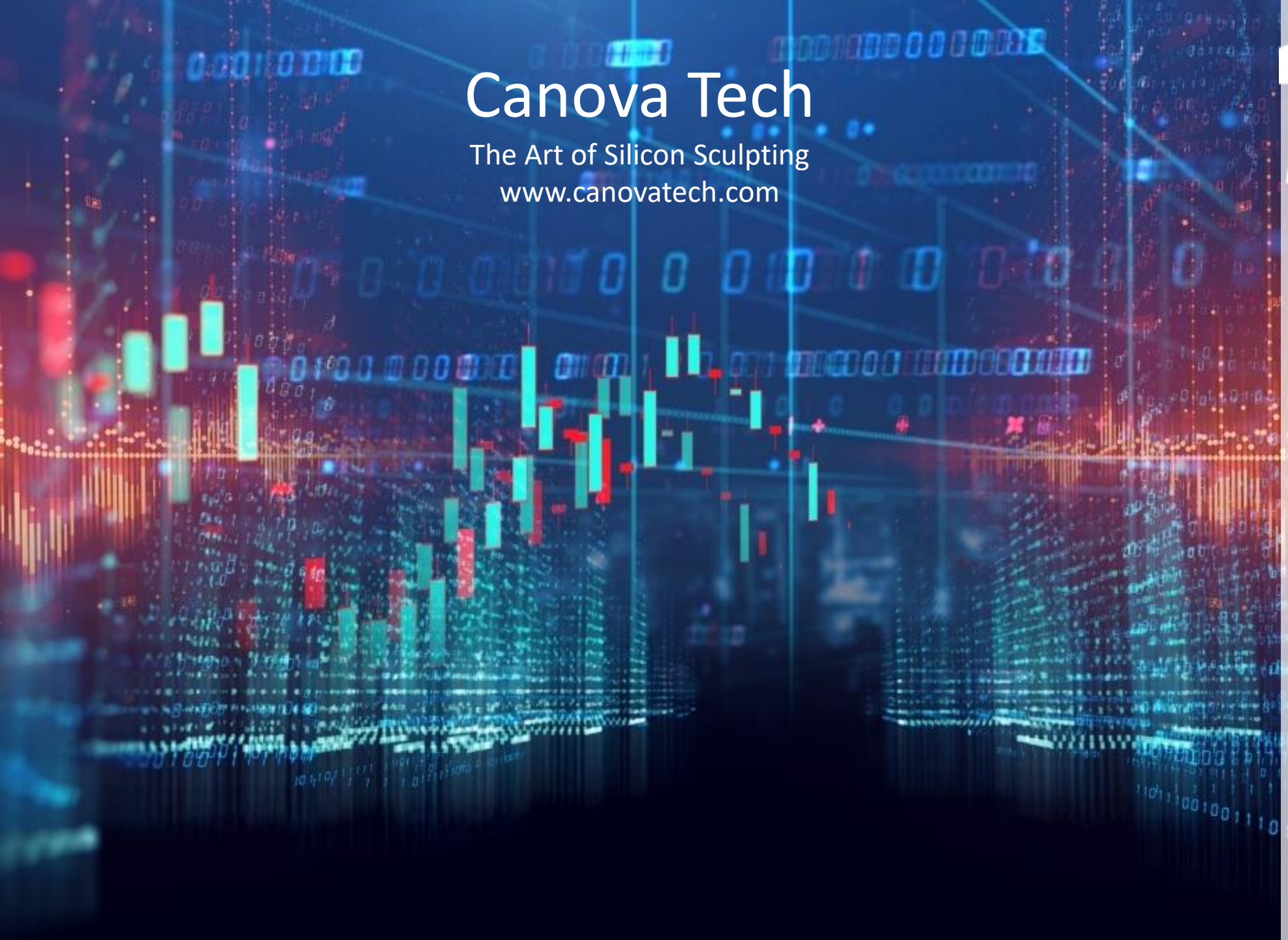

Canova Tech

The Art of Silicon Sculpting

www.canovatech.com

Canova Tech is
ISO 9001
Certified by
TÜV NORD
since 2014

Canova Tech - Summary

- Active since 2005 in the field of Microelectronic Circuit Design
- The infrastructure is consolidate for designing and testing
    - Complete Integrated Circuit (IC) from architecture definition to transfer to Volume Production
    - Innovative Intellectual Proprieties (IP), meaning complex blocks to be integrated into customer IC
- The range of Customers is wide including major OEM (Original Electronic Manufacturer that produce final electronic products) and IC Manufacturer
- Designs are developed in several IC Technologies Providers (Foundry)
- Canova Tech is actively contributing in Standardization Committee (examples are USB, IEEE)
- About 20 people Team, from Engineering and Physics University

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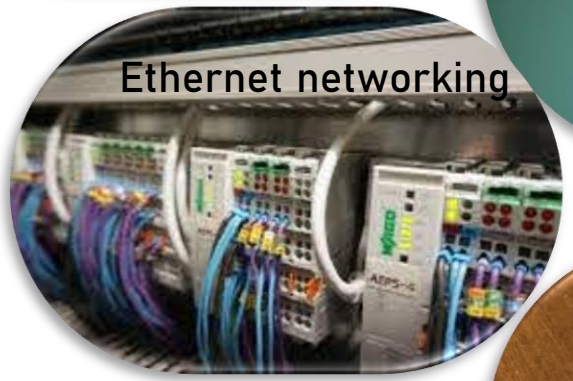
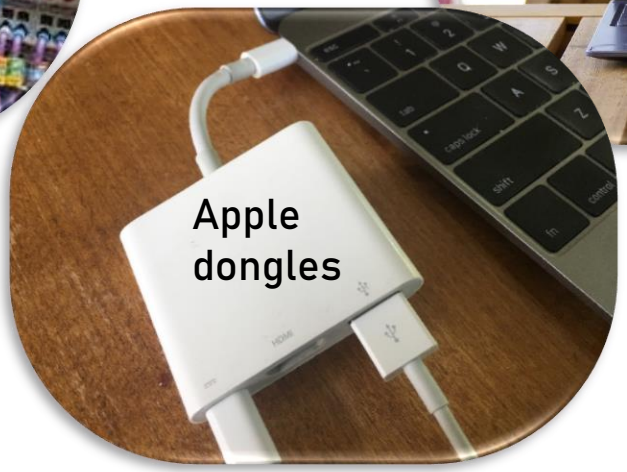
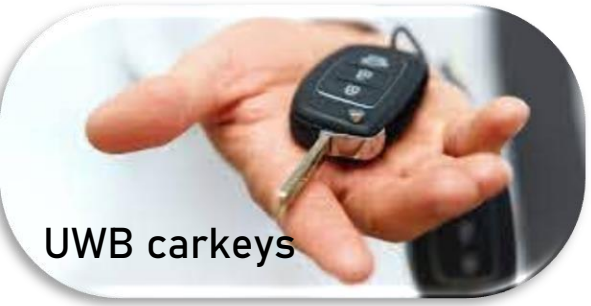
Our designs are inside...







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Snapshot

Canova Tech

Privately held
Established 2005
HQ in Padova, Italy

delivers mixed-signal & analog-intensive design services and standard IPs to the semiconductor market worldwide

FDY partners

Members of GLOBALSOLUTIONS®

Design Team

Skilled Design Eng's

Membership

Active members and contributors of industry and telecommunication standards

IEEE 802.3 · GSA Where Leaders Meet · OPEN ALLIANCE · USB

Customers

Working with market-leaders and innovators worldwide

Infrastructures

Industry-Std EDA tools

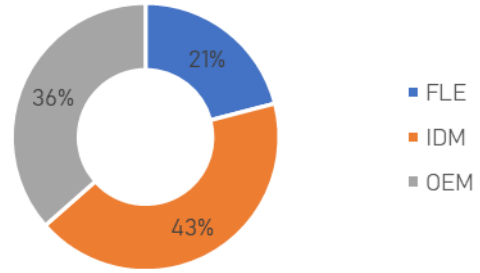
IC qualification Lab

Quality

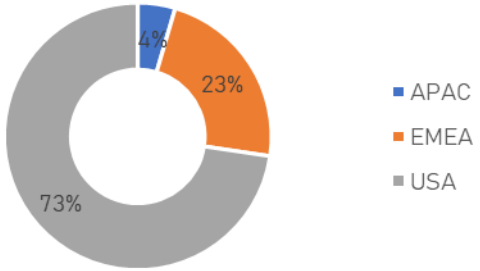
ISO9001:2015 certified since 2014

TÜVNORD

Income 2015-2020
Customer Type



Income 2015-2020
Region



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Expertise

Silicon-Proven IPs

- Power drivers
- Power management
- Signal conditioning
- AD/DA conversion
- Auxiliary blocks
- Telecom PHYs

Automation/IoT	Medical	Automotive	Consumer
• Industrial Ethernet • Power over Data Lines	• Near-Field communication	• Automotive Ethernet • Automotive USB Power Delivery	• HDMI / Display Port • USB 2 / eUSB2 • USB Power Delivery
• Power Management • Power Drivers • Energy Harvesting • Ultra-low Power	• Battery operated power managers • Wireless charging • Ultra-low Power	• Power Management • Power Drivers	• Power Management • Energy Harvesting • Battery operated • Ultra-Low Power
• Industrial Sensors conditioning and ADC • Touch Panels drivers	• Medical Signals Conditioning and ADC • Intra-cardiac Pressure Sensor	• Automotive Sensors Conditioning and ADC	• MEMS Mirror • Signal conditioning and ADC • PrintHead MEMS

Communication

Power

Signal Conditioning

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Silicon Processes Experience

- FDY Processes
  - CMOS/BCD: 350n, 180n, 130n
  - CMOS/DSM: 65n, 40n, 32n, 28n, 22n
  - FinFET: 7n, 5n, 3n

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since 2019

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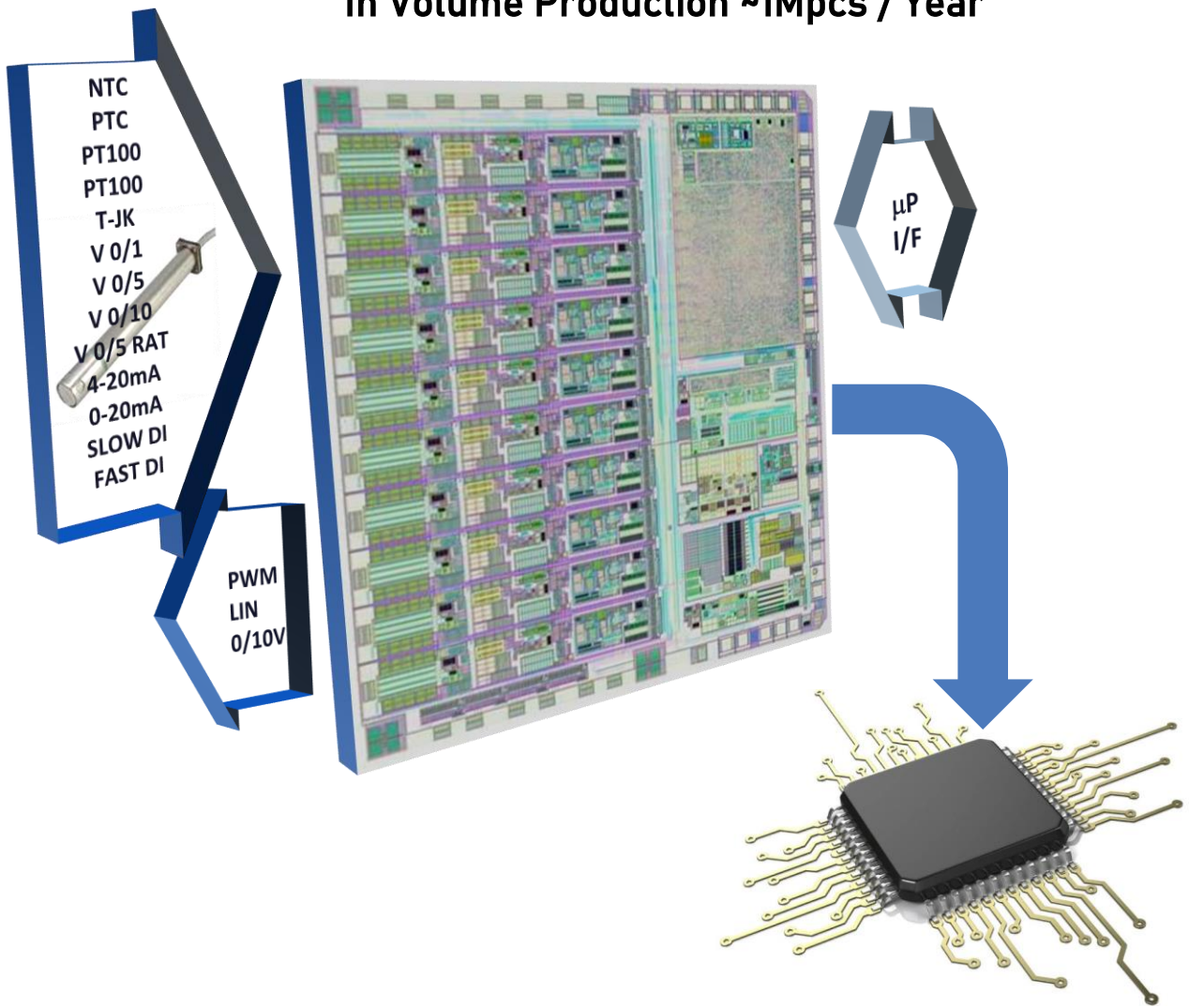
PRODUCT EXAMPLE
CONFIGURABLE AND FULLY PROGRAMMABLE IOs
FOR INDUSTRIAL-GRADE SENSOR CONDITIONING & CONVERSION

In Volume Production ~1Mpcs / Year



CONFIGURABLE IO PIN (10 Channels)

- INPUT FOR A WIDE VARIETY OF INDUSTRIAL SENSORS
  - RESISTIVE
  - CURRENT
  - VOLTAGE
  - DIGITAL
- INDUSTRIAL OUTPUT
  - PWM
  - LINEAR 0/10V
- INTEGRATED PROTECTION
  - SURGE
  - BURST

SENSOR CONDITIONING AND CONVERSION

- High Precision REFERENCE VOLTAGE
- SINGLE AND DIFFERENTIAL PGA
- 14 BITS – ADC

DIGITAL

- SPI uP INTERFACE with CRC

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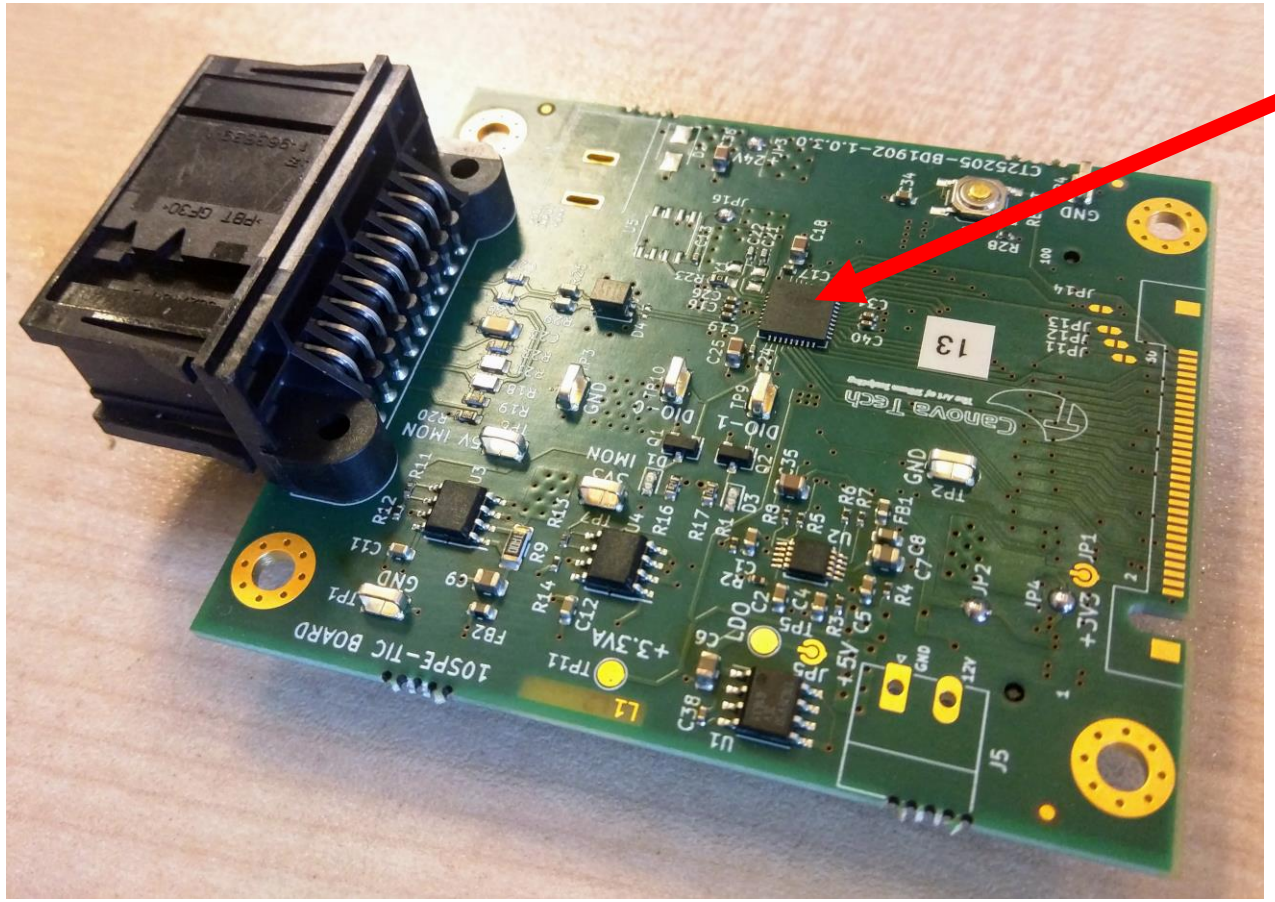

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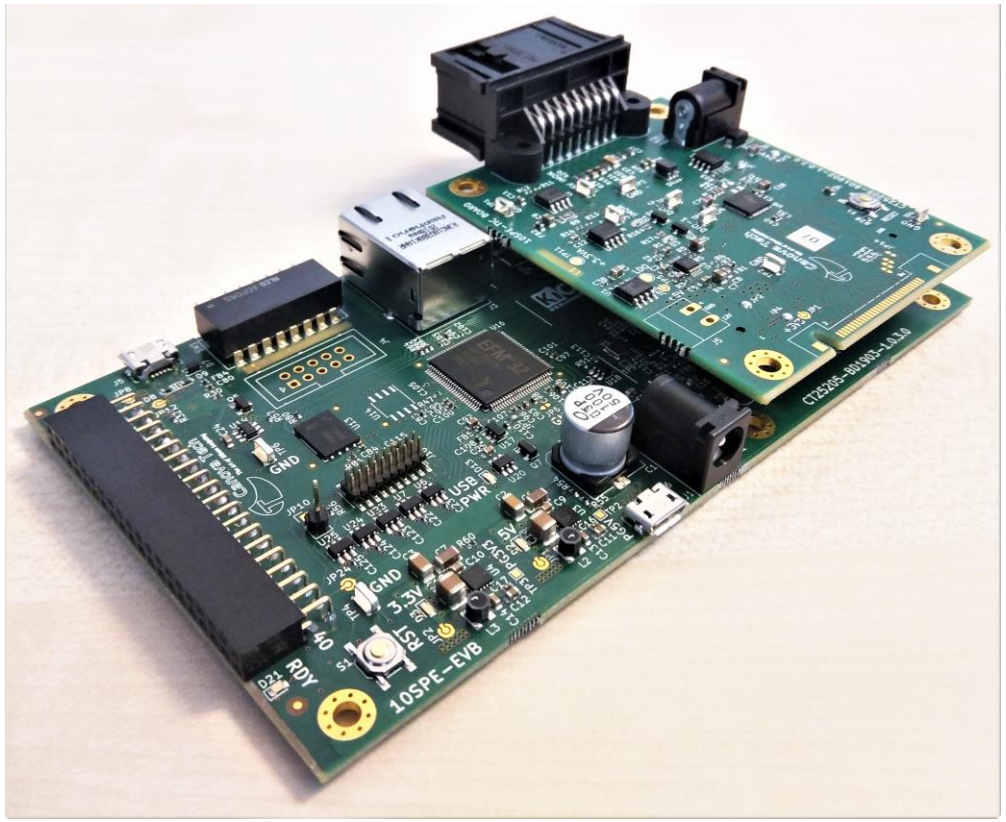

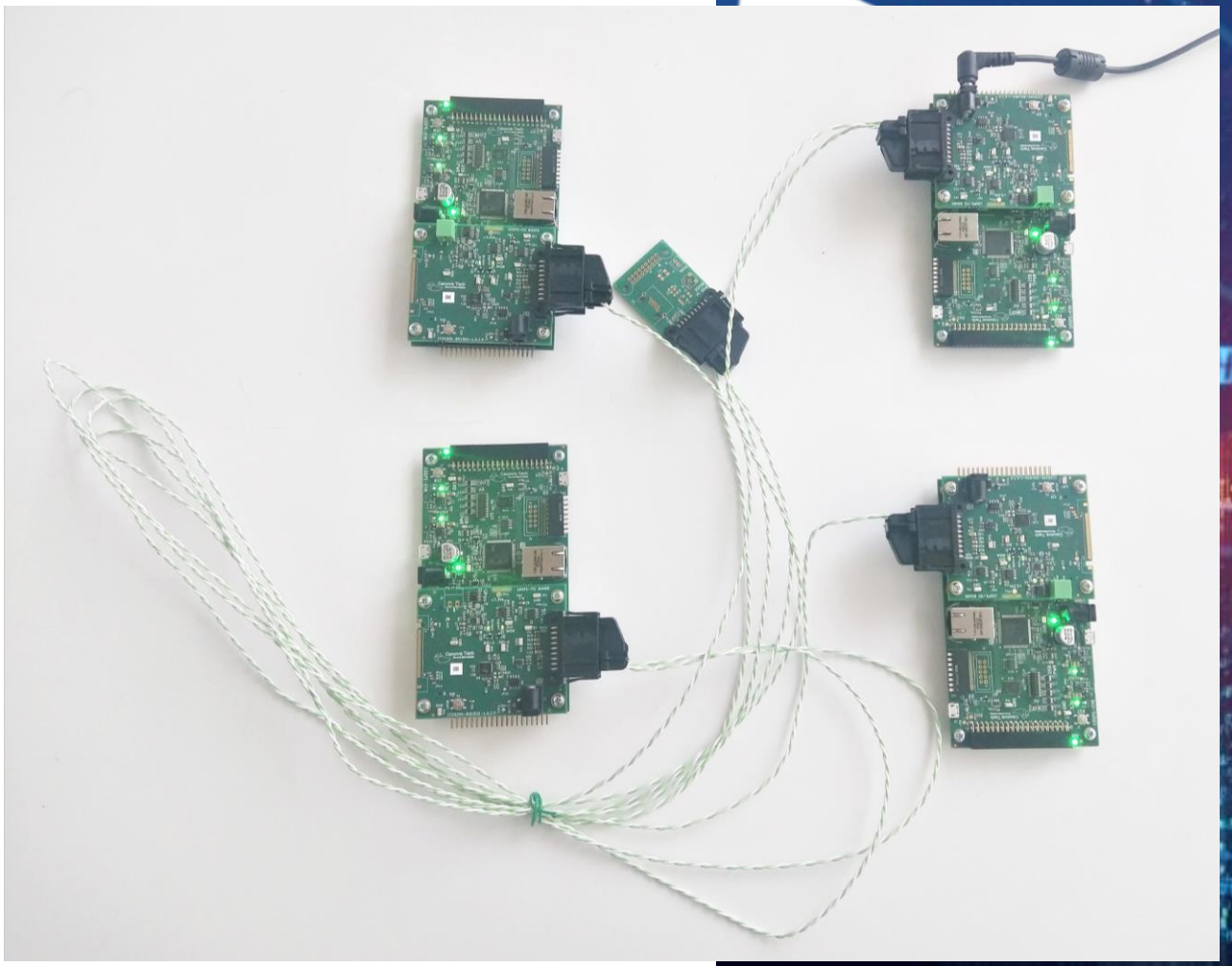

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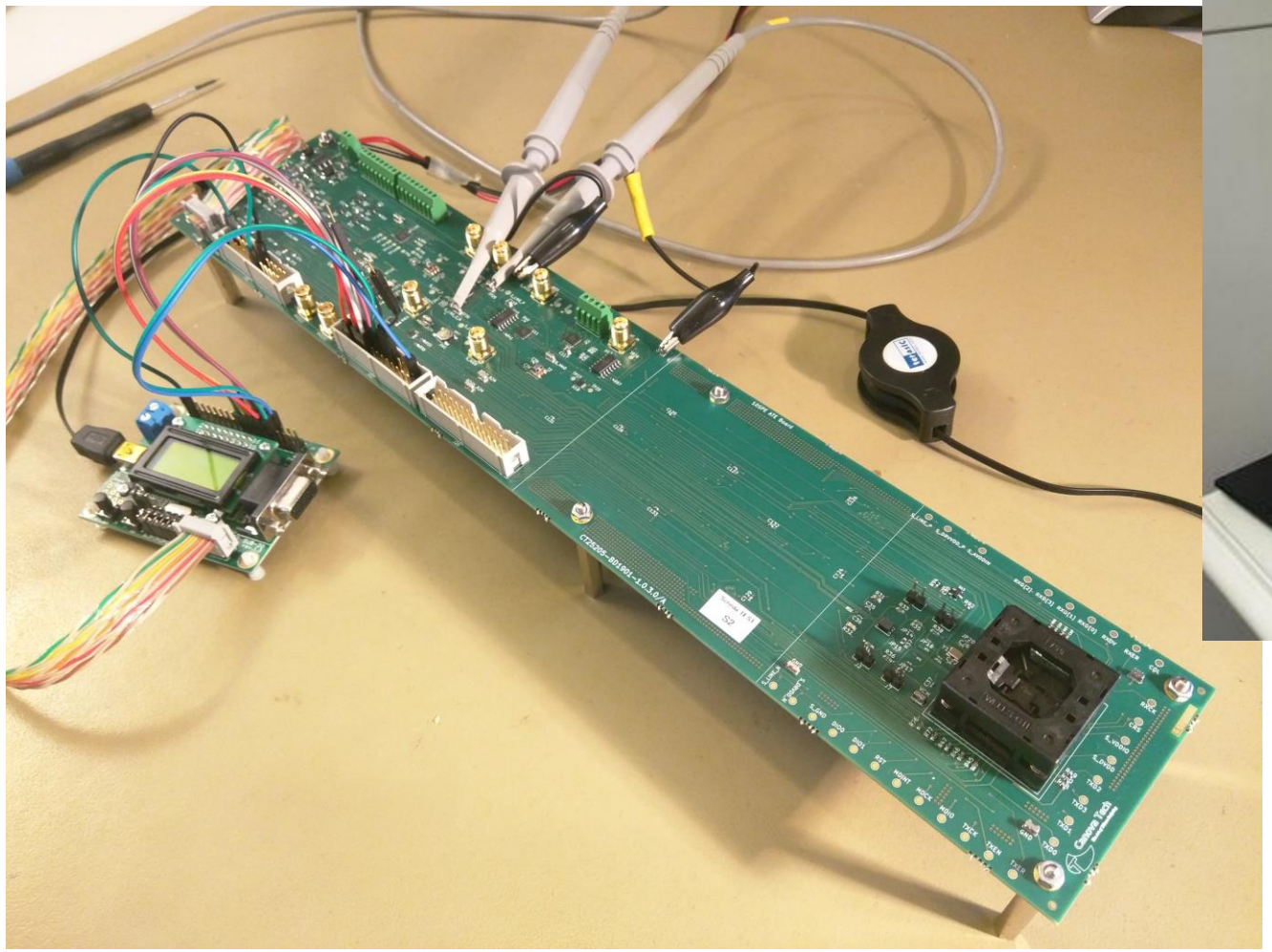

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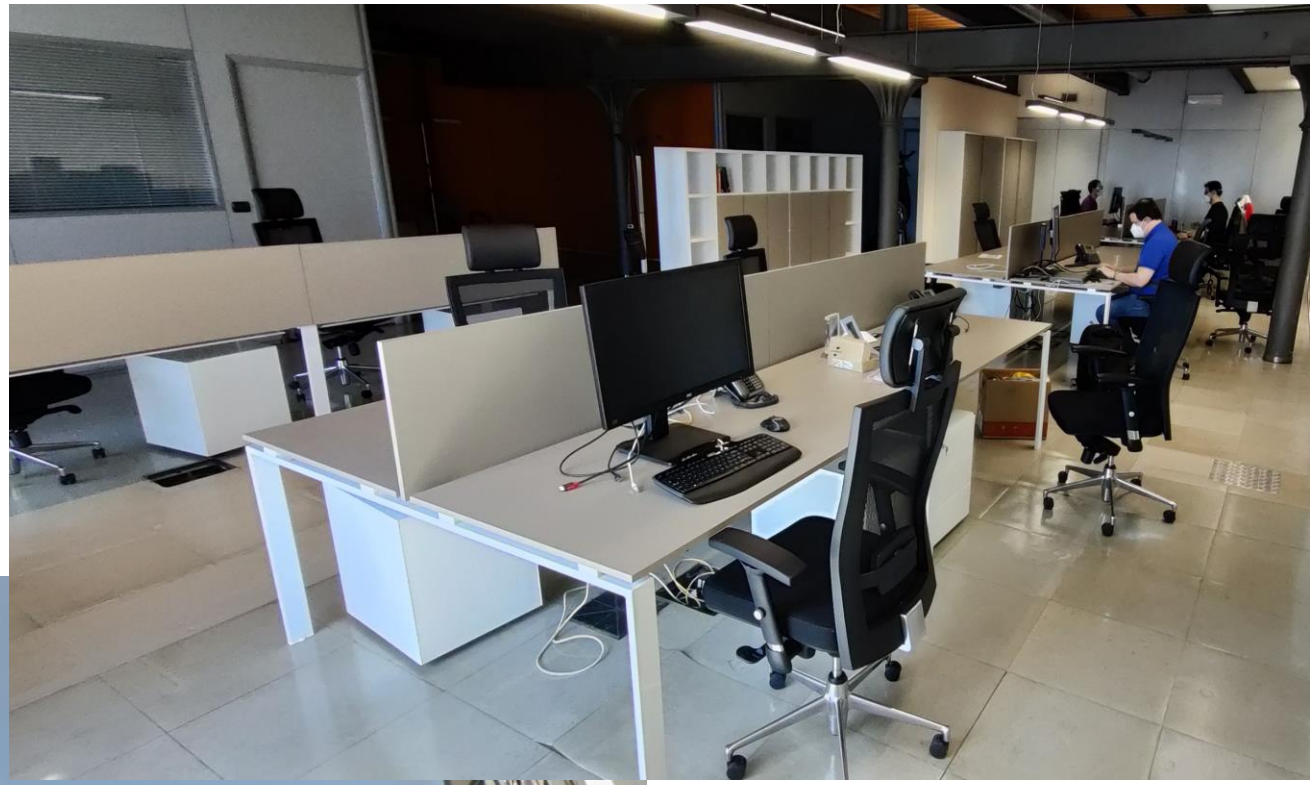
sites – PD Headquarter

Padova
Piazza Mario Saggin 2
Tower 2 – 11° Floor



Started on
Apr. 2021!!
Genova
Sampierdarena
Via Operai 40

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Thank you

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