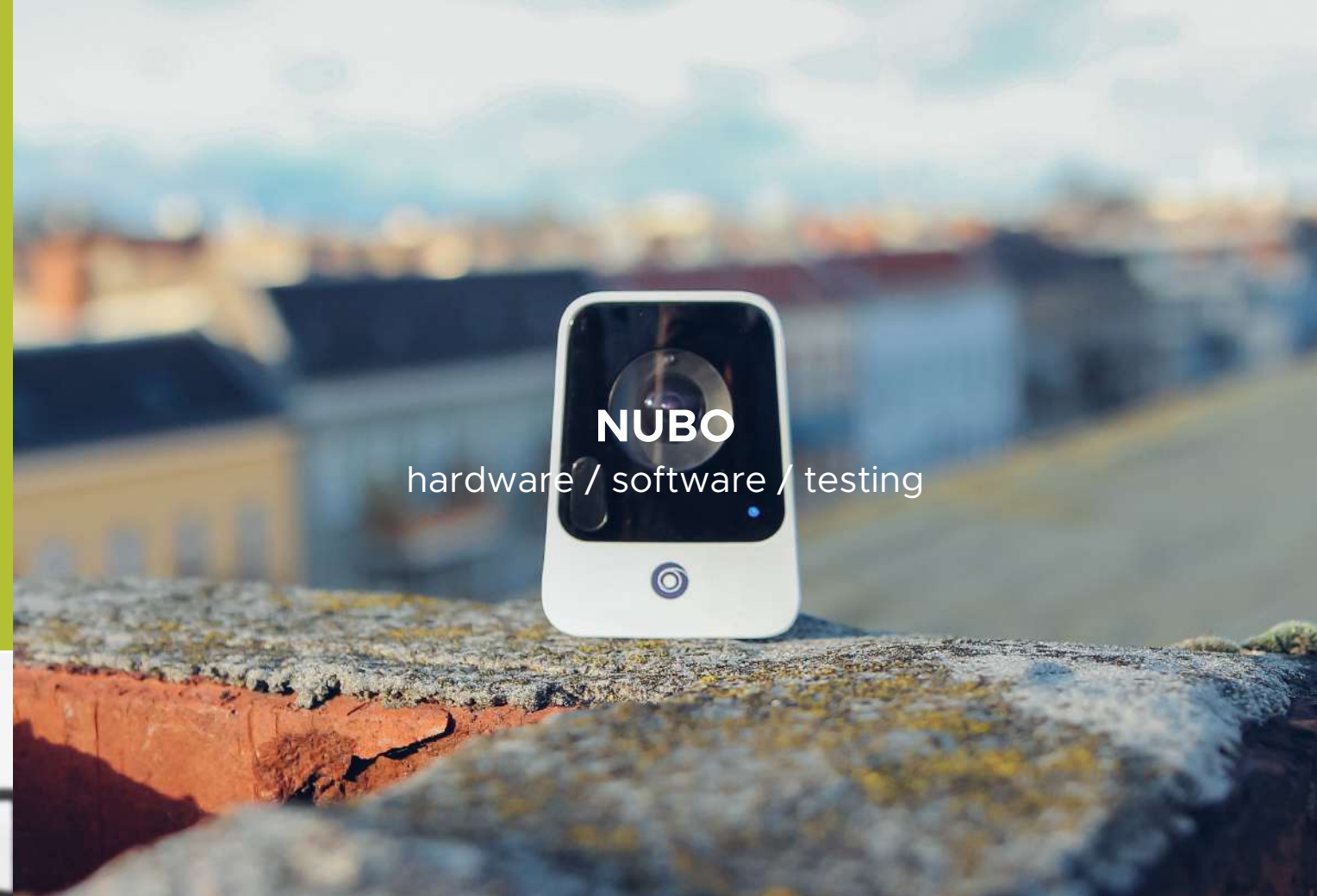# GRINN

Electronic design

for a smarter world

IOT SOLUTIONS, POWERED BY GRINN TECHNOLOGY

This is just the beginning

Nubo brings a new level of security

NUBO
hardware / software / testing

Get the freedom
to do what you want
while protecting
the things you love

The world's first 4G/LTE security camera; Nubo provides low-cost, high-quality remote monitoring, wherever you are.

We worked closely with the Eagle Eye Networks team to design, develop, and

optimize the core electronic hardware and software.

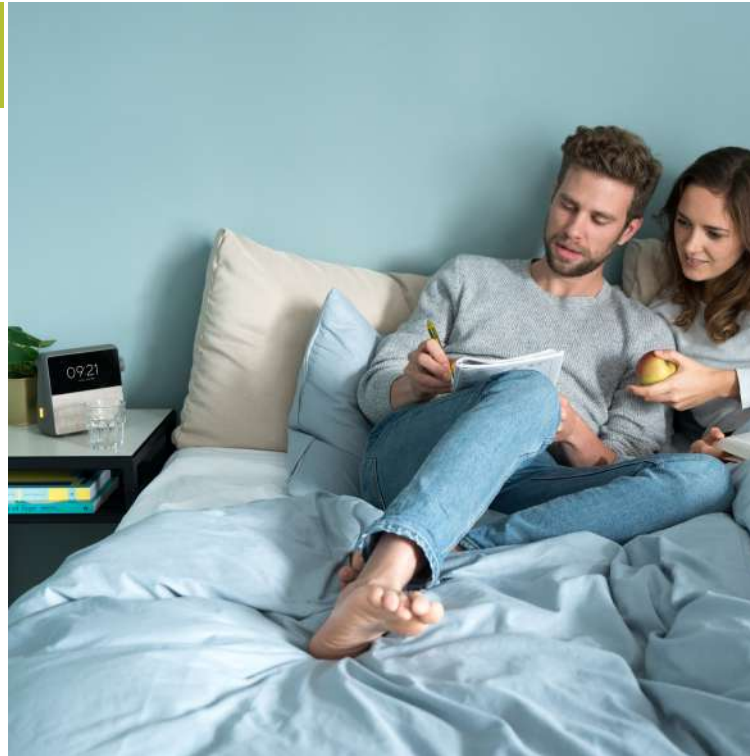www.nubocam.com/en

EAGLE EYE
NETWORKS

**Wake up to the
sleep revolution**

CIRCA
hardware / software / testing / production management

Circa helps you fall
asleep and gently
wakes you up
at the right moment

Sleep matters; that's why smart alarm clocks
—which wake you up naturally and promote
healthier sleep cycles—are increasingly
popular. Circa is the best solution we've
come across and it works without the usual
smartphone controls.

Our input helped incorporate an internet radio
and ensured that even tired hands easily can
operate the touch screen and buttons.

www.getcirca.com

circa

Stress-free traveling is in the bag with Versa

VERSA
hardware / software / testing / production management

Track your baggage anywhere, check if it was opened, and see it arrive on the belt
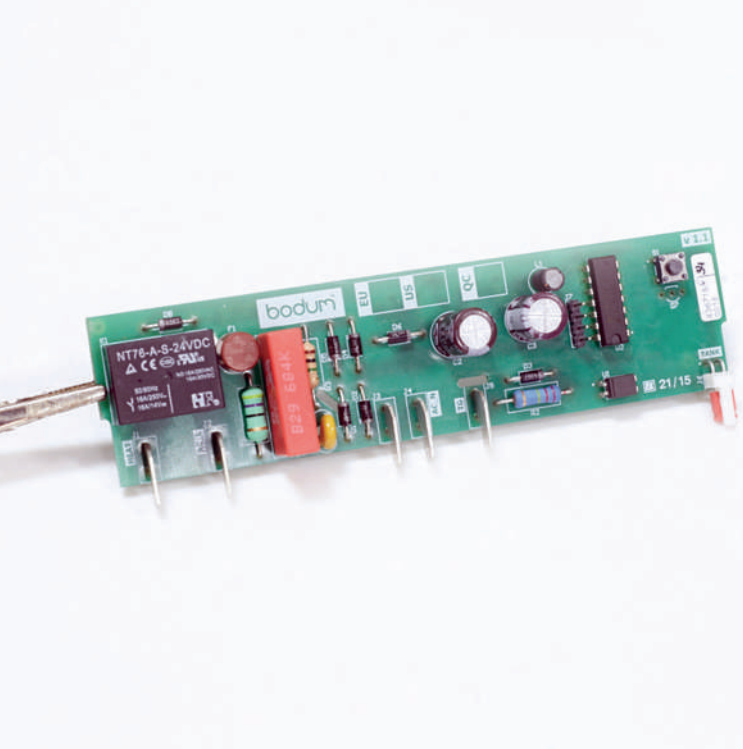
The most complete baggage tracking solution on the market. Simply place the Versa device in your bag and it tracks everything that happens while you are travelling—allowing you to relax and enjoy the ride. Grinn engineers prepared a concept of the device and created electronic elements, embedded software, and secured communication between the device and the cloud.
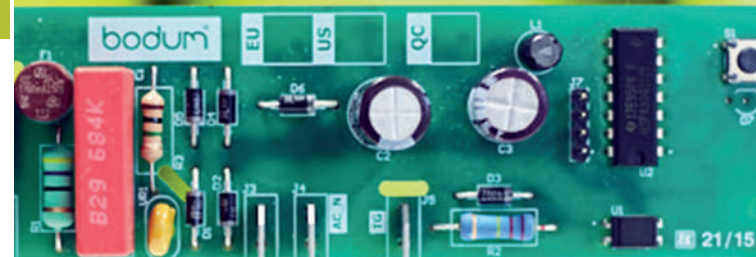
www.versa.company.com

VERSA

The new standard in coffee making. Programmable cafetiere for the perfect cup every time

We provided the core electronics to ensure the maximum intuitive functionality and high quality of the device. Making a great cup of coffee is an art from—we just added the science!

COFFEE MACHINE CONTROLLER
hardware / software / testing

An electronic control module for use in domestic appliances. Grinn is helping Hi-P address some key issues it had identified in its module—developing a low-cost, high-performance solution that is now mass-produced for use in a range of household products.

We ensure that a modern and functional device meets quality standards. The success is confirmed by the sale of an estimated 150,000 items per year.

www.hi-p.com

50% of infections can be avoided by improving hand hygiene

Saninudge
is a comprehensive
system for preventing
the transmission of
infectious diseases

SANINUDGE
hardware / software / testing

Our client devised Saninudge; a wireless, hand hygiene monitoring technology designed to help healthcare institutions improve and report compliance with hand hygiene guidelines. A revolutionary hand sanitizer for hospitals. We developed the electronics and software to make the client's vision a reality and then oversaw full testing in complex environments.
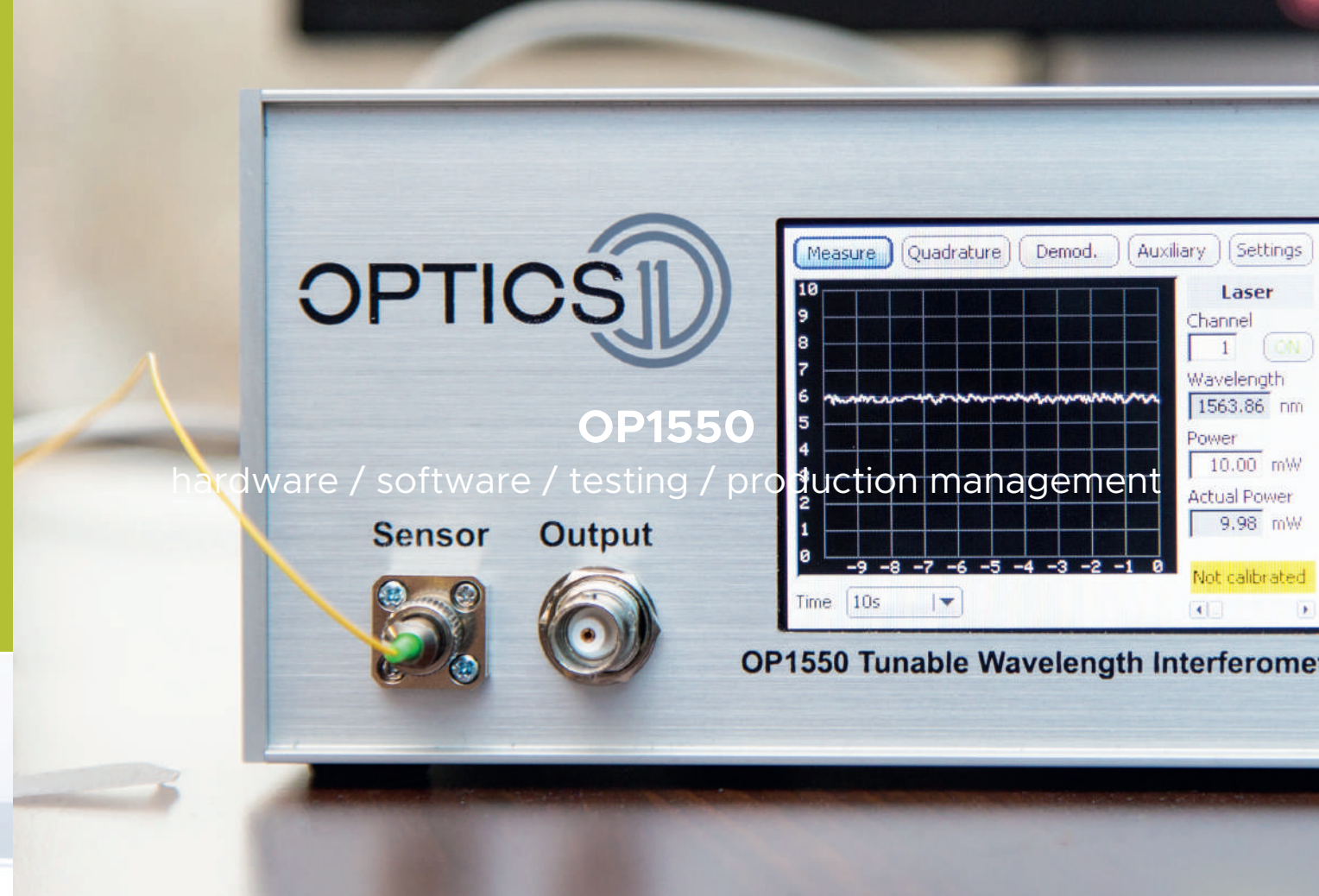
www.saninudge.com

sani nudge

**Our customers
always love to
challenge us**

OP1550
hardware / software / testing / production management

Measure Quadrature Demod. Auxiliary Settings

Laser
Channel
1   ON
Wavelength
1563.86 nm
Power
10.00 mW
Actual Power
9.98 mW

Not calibrated

Time 10s

Sensor   Output

OP1550 Tunable Wavelength Interferome

A user-friendly
device with a
wealth of possible
nanotechnology
applications

OPTICS

Sensor   Output

Power

OP1550 Tunable Wavelength Interferometer

Together we created an industry-leading
interferometer—a precision measurement tool
used in specialized nanotechnology labs.

We designed and developed a complete
solution around the client's sensor tool—for

the first concept to the final product—
providing a PCB, visualization software,
and device firmware.

www.optics11.com

OPTICS

The buildings we work in need to be comfortable and efficient

Air humidity and atmospheric pressure measurement allows you to optimize the workplace temperature for your people—and make them more productive

AQM SENSOR
hardware / software / connectivity / testing / production management

The device provides a power supply for independent air quality monitoring. Sensors measure air temperature, humidity, pressure, and the level of suspended particles such as PM2.5 and PM10, VOC and CO_2. Data is transmitted via LoRa. It allows multiple applications to integrate on the same network infrastructure. Checking air quality in a specific location becomes easy and instant.

www.grinn-global.com

GRINN

A wireless screen sharing and digital signage

Device with cloud management for businesses and schools

AIRTAME POE ADAPTER
hardware / testing

As a proven creator of world-class solutions, we teamed up with Airtame – a company that is shaping the future of collaboration in workplaces in schools using the latest wireless technology. Together, we developed an accessory that secures a reliable wired ethernet connection to the Airtame 2 - from which the wireless connectivity with collaborative devices is established.
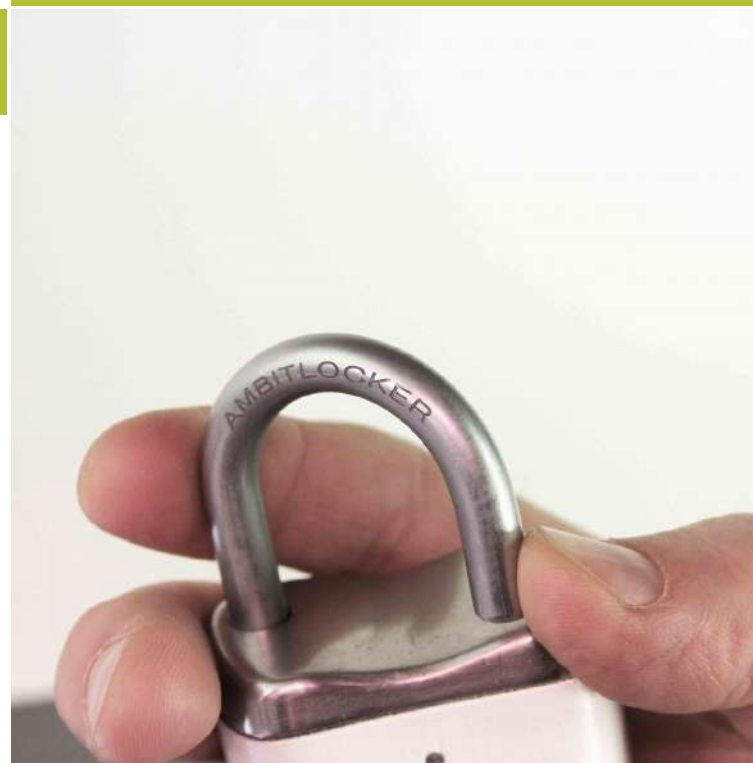
www.airtame.com

≈ AIRTAME

A digital, radio-controlled and Internet-connected IoT padlock

Useful for a range of end-users: from primary school students to hospital staff

AMBITLOCER
hardware / software / testing

During the Ambitlocker project, we used the most innovative, proven and high-performance radio technology LoRaWAN which is used in many other Grinn solutions. We were responsible for creating th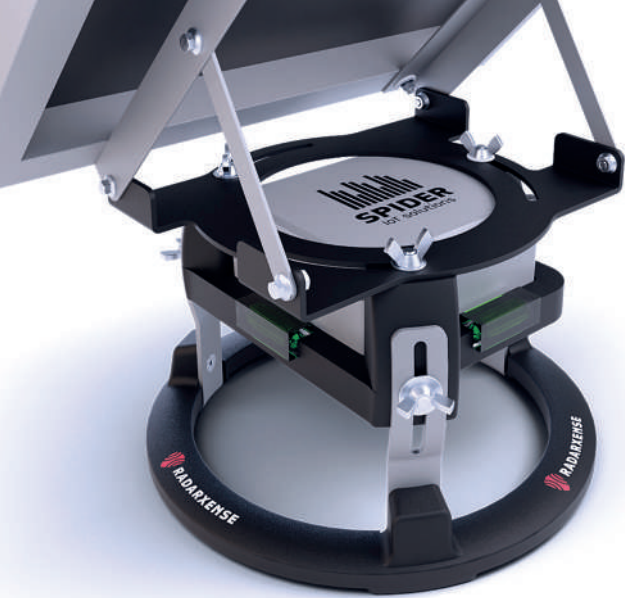e hardware part of the Ambitlocker device - PCB design to compose the electronic factors in a compressed and profitable way.

www.ambitlocker.com

AMBITLOCKER

Intelligent agriculture

The easy assembly
of solar panels to
power the solution
reduces running costs
to a minimum

SILO SPIDER
software / hardware

Silo Spider is built for durability and reliability.
It is designed to cope with some of the most
demanding weather conditions and make sure
that the farm works all year round.
Spider IoT Solutions called on Grinn engineers
to manage and implement proper software and

hardware to run the latest radar technology
combined with high quality IoT solutions.

www.spider-iot.net

SPIDER
IoT solutions

You're going to like working with us

OUR CLIENTS

circa OPTICS11 VERSA sani nudge HP EAGLE EYE NETWORKS SPIDER IoT solutions

AMBITLOCKER ≈ AIRTAME

OUR PARTNERS

Telit NXP WE WÜRTH ELEKTRONIK TEXAS INSTRUMENTS Design Network infineon MICROCHIP

LET'S GET STARTED

Our team of consultants, designers and engineers is ready to get started on your project. With a flair for problem-solving, a global outlook and a flexible approach, we're committed to delivering outstanding solutions fast.

e-mail: office@grinn-global.com
call: +48 71 716 40 99
www.**grinn-global**.com