Measuring flow – from drops to rivers

Thessaloniki, 17.09.2022



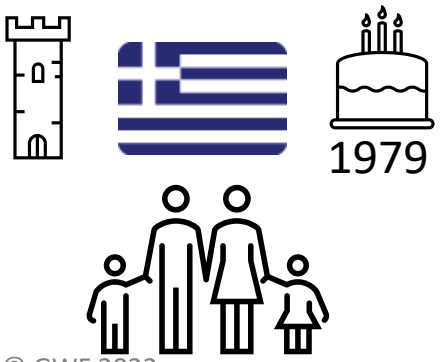
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WHO IS TALKING

Alexandros Tintinis

(Senior Embedded Software Engineer)





Experience

Senior Embedded Software Engineer
GWF MessSysteme AG · Full-time
Jun 2021 - Present · 1 yr
Thessaloniki, Central Macedonia, Greece

Measuring, collecting, and managing consumption data for water.

Olympia Electronics
Full-time · 12 yrs
Kolindrós, Central Macedonia, Greece

- **Embedded Systems Manager**
  Oct 2020 - Jun 2021 · 9 mos

  R&D Manager in Addressable Panels Projects.

- **Development Team Lead**
  Sep 2019 - Oct 2020 · 1 yr 2 mos

  Coordinate, manage and provide mentorship and technical guidance to the team of developers.

- **Senior Embedded Engineer**
  Jul 2009 - Sep 2019 · 10 yrs 3 mos

  Safety and Security Systems.
  - Circuit design, microcontrollers programming, product development management.

Firmware Developer & PCB Designer
Kyklon Automation · Full-time
Apr 2004 - Apr 2009 · 5 yrs 1 mo
Thessaloniki, Central Macedonia, Greece

Elevator Applications.
- Developed firmware for the lift's main control panel.
- Designed PCBs for elevator's automatic doors, main panel boards, display boards and more.



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OUR SUCCESS STORY

GWF

1877 2019 120 YEARS

















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Office evolution



2019 — Kick off: SW Dev Team starts growing

Jan 2020 — Establishment: SW Dev Team has 6 developers

Aug 2020 — Getting bigger: Embedded team kick off

Dec 2020 — Transformation: Office redecoration and lab creation

Jun 2021 — Getting bigger: Thessaloniki site manpower = 30 devs and engineers

Today — Getting bigger: At least 6 open hires

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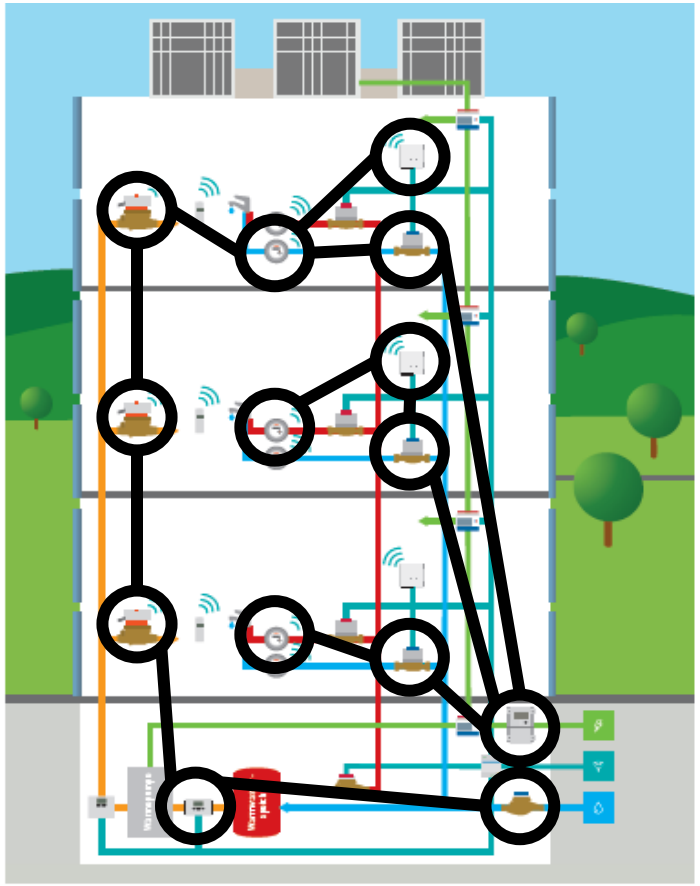
Creating the best ultrasonic meter in the world



© GWF 2022

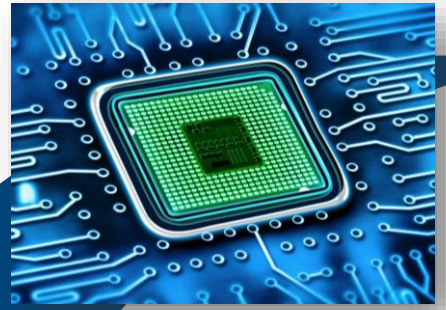
THE ECOSYSTEMS IS A COLLECTION OF DEVICES WHOSE ENTIRETY IS BIGGER THAN THE SUM OF ITS PARTS

An ecosystem



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THE ANATOMY OF A NOBLE METER HAS MANY LAYERS OF ABSTRACTION

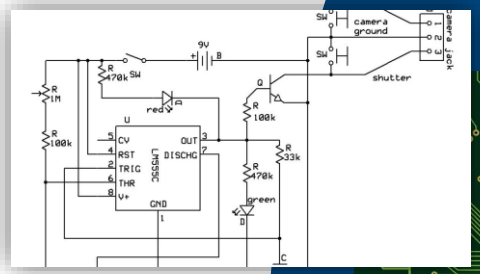


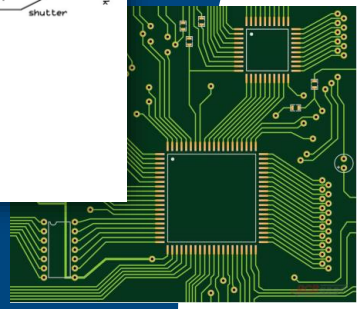


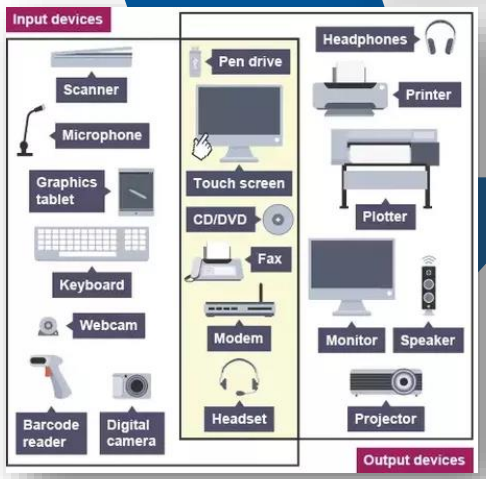








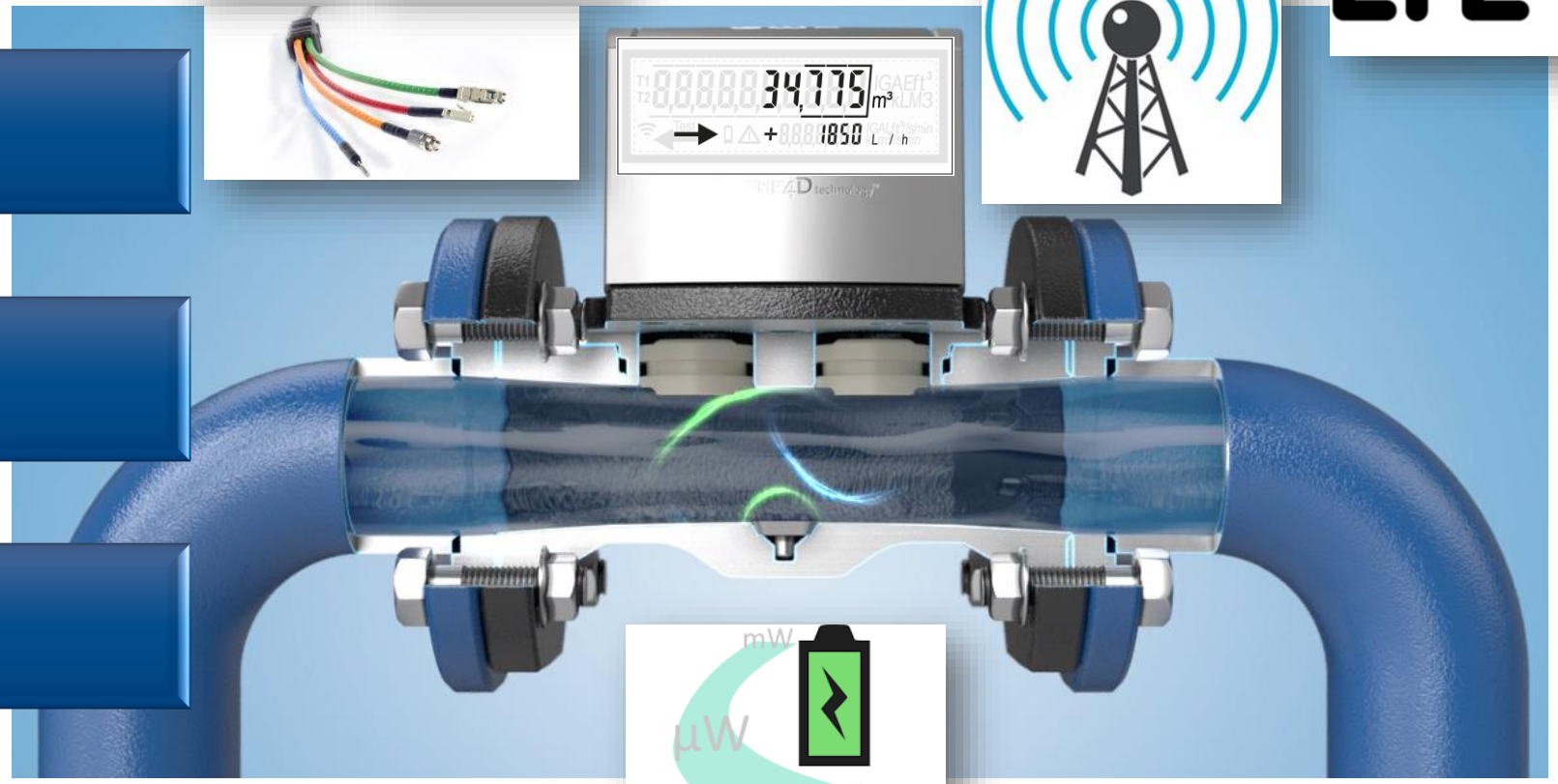




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WE DESIGN FLOW METERS THAT SPEAK MANY LANGUAGES…

- Manual readout
- Wired
- Wireless



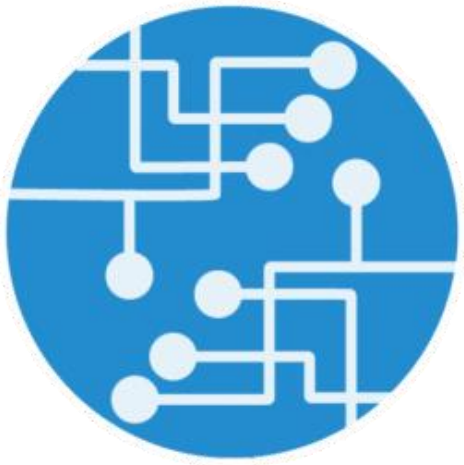
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IOT IS THE ECOSYSTEM OF METERING DEVICES TALKING TO EACH OTHER

IoT Devices



Edge & Communication



Cloud



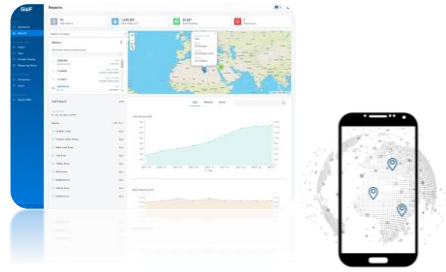
Users & Applications



Household	Business/Industry
 Domestic water	 Domestic water
 Domestic gas	 Commercial & industrial gas







Meters

Standards &
Proprietary protocols

Backend Infrastructure

Mobile & Web Applications

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WE USE THE LATEST-AND-GREATEST TOOLS FOR DEVELOPMENT

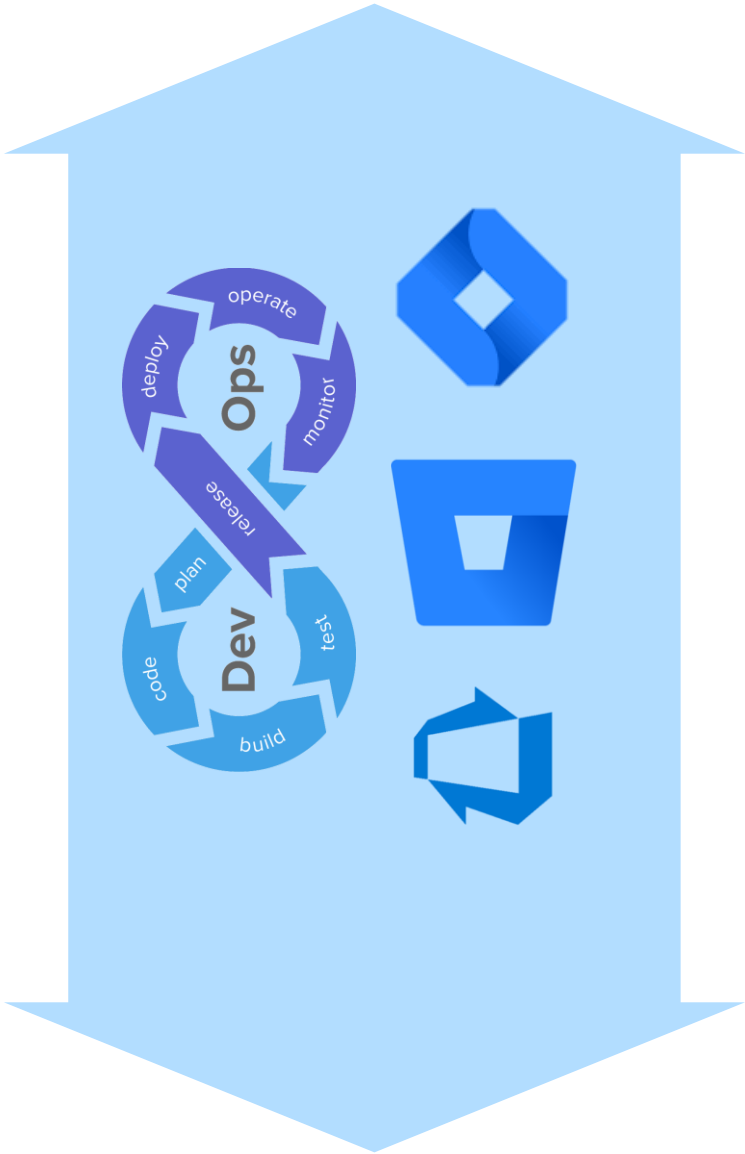
GWF

Software

Protocols

Firmware

Hardware



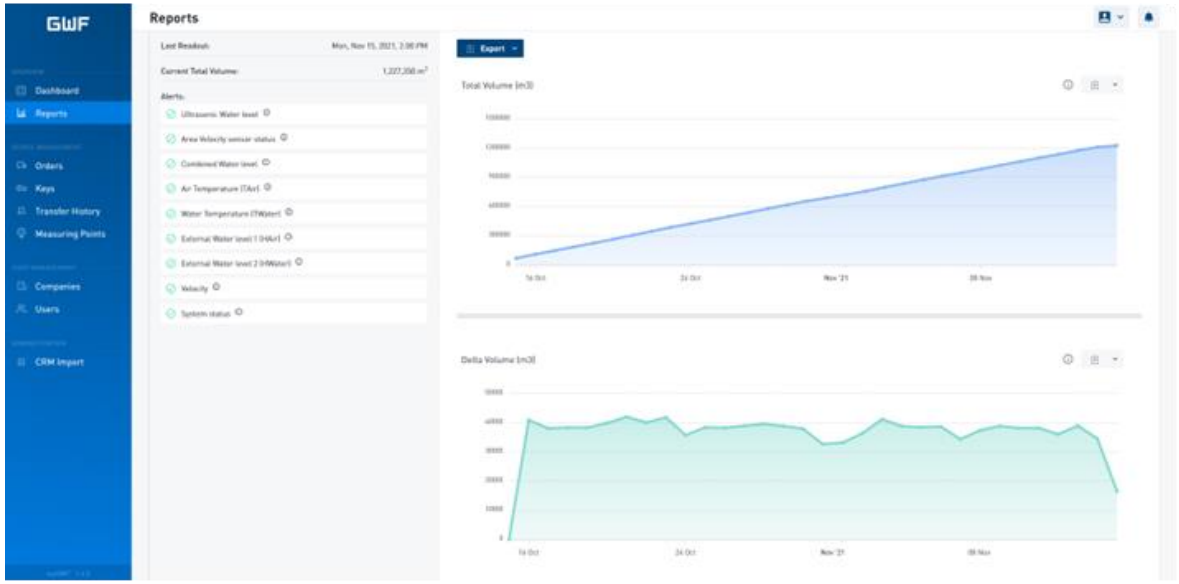
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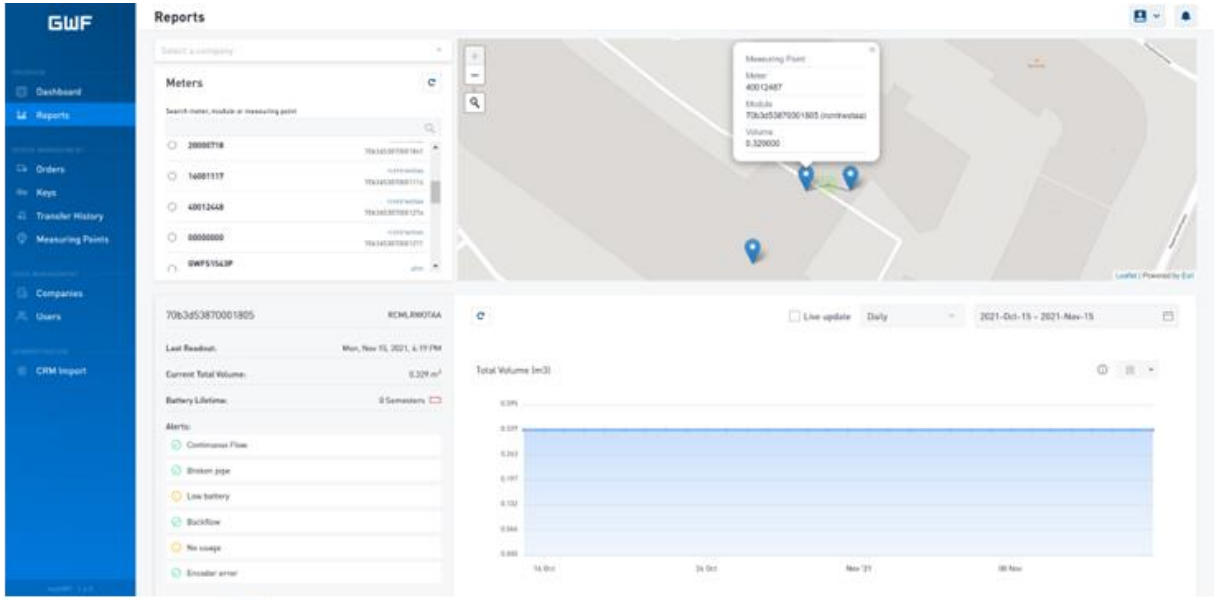
Developing an IoT platform and applications



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OUR IOT PLATFORM





Microsoft

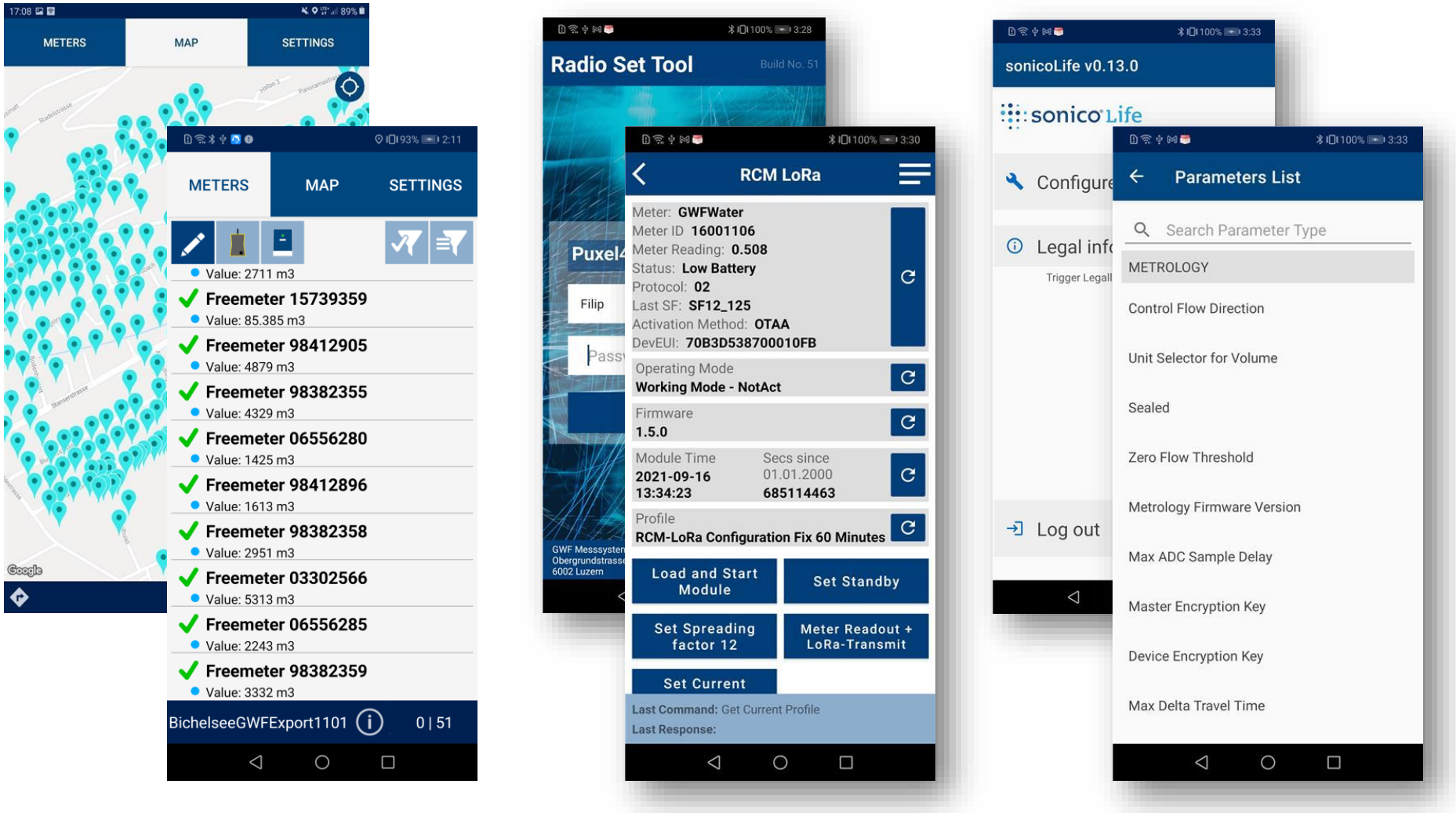
Microsoft #BuildFor2030
Hackathon Hero

GWF



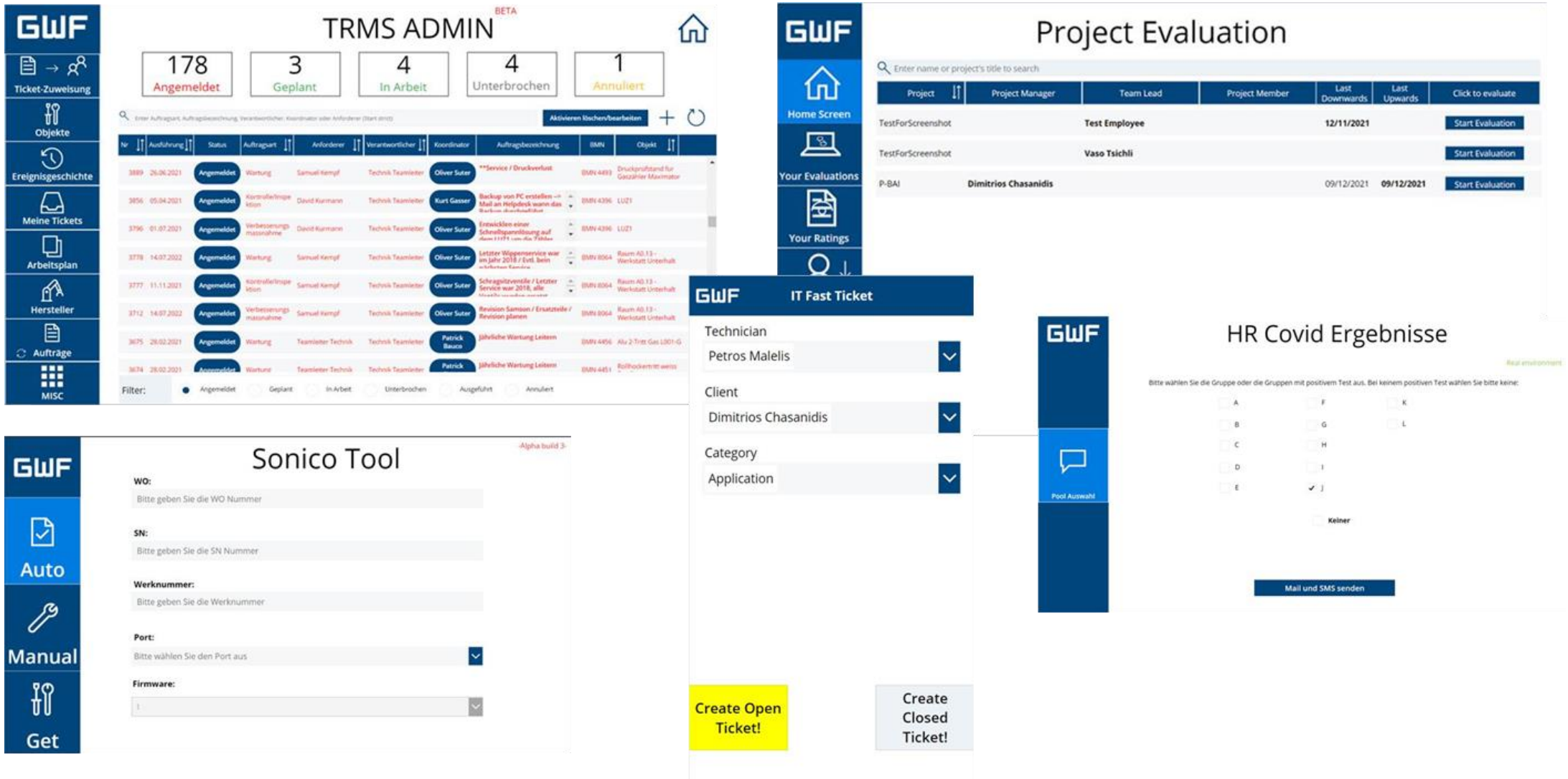
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OUR MOBILE APPS SERVE INTERNAL AND EXTERNAL CUSTOMERS



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OUR INTERNALS TOOLS: PRODUCTION PROCESSES



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Roles within GWF



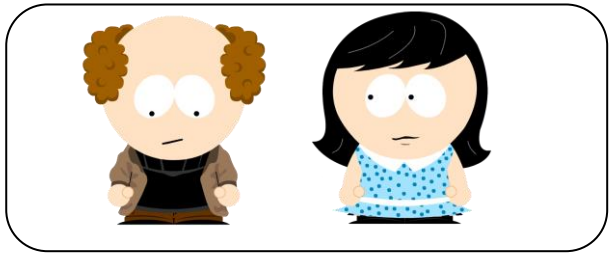
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SUCH A HUGE TECH STACK CALLS FOR UNPARALLELED UNITY AND COLLABORATION

GWF

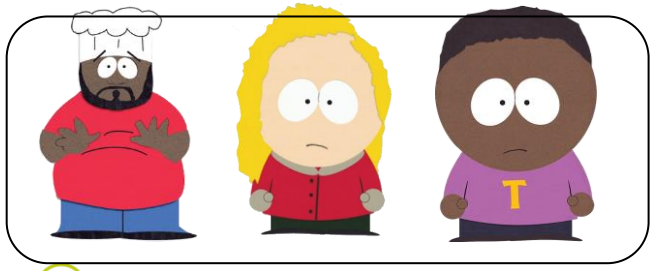
Team **Embedded**





Team **Software Dev**



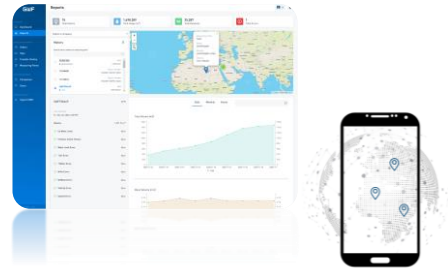


New Hires

Household	Business/Industry
 Domestic water	 Domestic water
 Domestic gas	 Commercial & industrial gas







Meters

Standards & Proprietary protocols

Backend Infrastructure

Mobile & Web Applications

© GWF 2022

WE ALWAYS WELCOME SPONTANEOUS APPLICATIONS!

Great Place To Work.®
Certified
02.2020 - 01.2021



Come on board. Join our Team!

Work across digital product design and embedded systems. Create real-time connected applications and unleash your entrepreneurial spirit to shape the future

Embedded Software Engineer

with focus on low-power design

We are a grow
agile SME env
actions count



Come on board. Join our Team!

Work across digital product design and embedded systems. Create real-time connected applications and unleash your entrepreneurial spirit to shape the future

Junior Backend Developer m/f (100%)

Position based in Thessaloniki, Greece

You will be part of our growing GWF Labs team in Thessaloniki, Greece, whose mission is to create real-time decision systems and intelligent solutions by harnessing IoT and telemetry data. Having a real passion for

We are a growing, supportive, and agile SME environment where actions count more than words.

We hold a worldwide leading position in the niche market of flow data measurement and collection, especially for water, heat, and



Work across digital product design and embedded systems. Create re
time connected applications and unleash your entrepreneurial spirit
shape the future

Firmware Test Engineer

You will be part of our young and growing GWF Labs team, whose mission



Front-end Developer (m/f)

You will support your colleagues in the SW development team and build cool products for our customers!

You will be part of our SW development team in Thessaloniki, Greece. You find solutions where others see dead-ends. You take full ownership of your tasks and have customer-centric mentality. We have a highly dedicated team of IT professionals in Thessaloniki who give their all to help GWF and its customers flourish. The ideal candidate for this position is an experienced developer who can demonstrate GitHub contributions

We are a growing, supportive, and agile SME environment where actions count more than words.

We hold a worldwide leading position in the niche market of flow data measurement and collection,



Come on board. Join our Team!

Junior Business Application Integrator

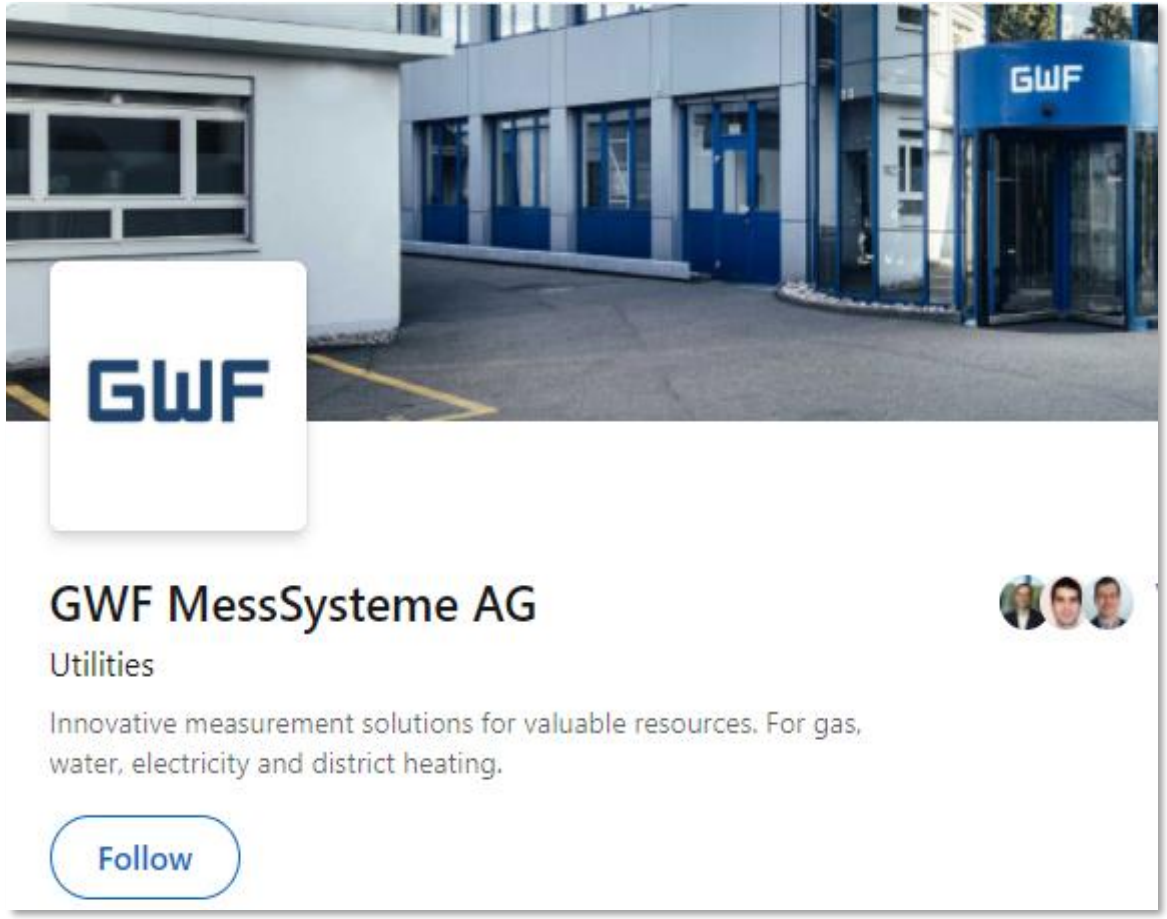
You will become part of our small and growing GWF Labs team in Thessaloniki, as we rethink and redesign our company-wide approach to digital capabilities. You have a real passion for the application of

We are a growing, supportive, and agile SME environment where actions count more than words.

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Source: www.gwf.ch

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02.2020 - 01.2021



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Thank you for your attention!

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www.gwf.ch

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