

Tomasz Widomski

MEMBER OF SUPERVISORY BOARD AT ELPROMA

Entrepreneur and businessman with over 30 years of IT (OT) and IoT experience. An expert in the field of synchronisation and GNSS cybersecurity, mainly implemented in sectors such as datacenter/cloud, financial market, telecommunication, smart-grids, broadcasting and public administration. Within his whole career path, Tomasz obtained expert level knowledge of Quantum Key Distribution QKD and Quantum Computing QC.

State advisor for ITU (International Telecom Union) Team of Poland in 2021 for security at Industry4.0 and TSN (Time Sensitive Networking). He is the consultant responsible for the strategy of distribution and role of the official state (legal) UTC time at the Central Office of Measures of the Republic of Poland (GUM) for critical infrastructures. Participant and member of the EU expert teams in Brussels (DG-Energy / DG-Connect - for QKD). An IT engineer and visionary, who sympathies with modern quantum technologies QKD and QC.

Co-founder of the ELPROMA company and its first CEO (1992-2014). On a daily basis, Tomasz deals with high-tech synchronisation products, where he combines business with science and a hobby.



CONTACT DETAILS

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CAREER GOALS

- **Make tomorrow, today** - by deploying State of the Art secured solutions suitable for **Industry4.0** and **TSN**
- **Growth through innovation** in a world where the technological landscape is being revolutionised by new ideas and **Quantum Computing**,
- **Value Management** of a company assets that follows the shareholders' and stakeholders' consensus,
- **Security First**, because it is "better be safe than sorry" when considering long-term business growing
- Enable **participation of women and a young staff**
- The challengeable projects need to **break stereotypes**

OBTAINED SKILLS

BUSINESS

- *Government level relationship* ([link](#))
- *Critical infrastructures security expert* ([link](#))
- *Company and project team management* ([link](#))

PUBLIC RELATIONS

- *Representation of the company in a form of meetings, guest performances, presentations, public seminars,*
- *Presentation and promotion of technology & products*
- *Running PR including social media (LN, FB, Twitter ...)*

LANGUAGES:

- *English, full professional proficiency (C1)*

PUBLIC ACTIVITY & PUBLICATIONS

- **ITU-T** Advisor of Polish Representation Team, 2021
 - **G2 Geopolitical Forum** expert, Wroclaw, 2020 ([link](#))
 - **Polish Office of Measures** expert, Warsaw 2019
 - **Paris AIR Show Salon Du Bourget** 2017
 - **DG-Energy**, EC Brussel Security (EC) 2017
 - **ESMA MiFID-2** meeting London/UK, 2017
 - **DEMETRA GSA Horizon 2020**, 2016
 - **PTTI/ION** Monterey (USA), 01/2016
 - **White Rabbit CERN** at **PTTI Long Beach**, 2011
- seminars** -> <https://elpromatime.com/seminars/>
publications -> <https://elpromatime.com/publications/>

GDPR CONSENT STATEMENT

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data repealing Directive 95/46/EC (GDPR)

R&D PROJECTS

www.elpromatime.com

DEMETRA HORIZON 2020

2015 - 2016

Goal of the project:

Development of the "Trusted Time Distribution with Auditing and Verification facilities" for **GALILEO**
Obtained total budget: 3.5 million EUR. **Project hosted by:** GSA (<https://www.gsa.europa.eu>)

Tasks:

- Project leader for DEMETRA Time Service #2 (TSI #2)
- Development of the functionality of remote time & clock auditing (client's side),
- Development of retrospective (metrological) assessment of whether the time used in the past by the end-user was legally valid / invalid in terms of official state UTC(k) time.
- Professional metrology tests at London Physical Laboratory (NPL), Italian (INRIM), Polish (GUM)

Usage/Application: CLOUD/EDGE/FOG computing, IIoT/5G critical infrastructures, Industry 4.0 App

Link: <http://rime.inrim.it/H2020-Demetra/>

<https://www.gsa.europa.eu/demonstrator-egnss-services-based-time-reference-architecture>

SAFE-TIME CLOUD

2017 - 2018

Goal of the project:

Creation of a cryptographic PKI time stamping mechanism in the IIoT cloud

Obtained budget: 0.4 million EUR

Tasks:

- Mentor and active participant of the project (PR, creating publications, conducting seminars)

Usage/Application: IIoT cloud computing for M2M/Telemetry, public administration, banking

Link to the project: <https://www.safetime.pl>

CERN WHITE RABBIT & OTHER PROJECTS

2009 - 2015

CERN WHITE RABBIT (2009-2012)

<https://elpromatime.com/wp-content/uploads/2018/10/PTTI-2011-White-Rabbit.pdf>

TAKT (2014-15) dedicated embedded synchronization computer (zero-offset)

TASTE (2013-14) M2M/telemetry **CLEPSYDRA CRYPTO** (2009-10) air-traffic controls

WORK EXPERIENCE (ELPROMA)

Security Advisor of Polish Team on ITU	2021	MEMBER OF SUPERVISORY BOARD 2018- NOW
Secured Synchronisation of large energy infrastructure smart-grids in Asia	2019	
Management buyout (MBO) with domestic partners ELPROMA company's status - 100% Polish capital	2013	MEMBER OF A BOARD 2014-2017
Introduced and built the first synchronization infrastructure for security of PAZP Polish Air Navigation Services Agency	2008	R&D PROJECT SUPERVISOR 2009-2017
Start of production of time servers in Poland	2002	
Beginning of R&D Telemetry / M2M	1999	CEO OF ELPROMA 1992-2014
Commencement of R&D works in synchronization The first Polish DCF77 clock for IT	1994	
Acquiring a foreign strategic investor	1992	

EDUCATION

POSTGRADUATE STUDIES (2012-2013)

Capital Company valuation and Enterprise Value Management

Warsaw School of Economics (SGH)

MASTER OF SCIENCE IN COMPUTER SCIENCE (1984-1990)

Construction & software programming of mathematical machines and computers

Warsaw University of Technology - Faculty of Electronics, Institute of Computer Science of WUT