Name:	**Jarek (Jarosław) Hartman**
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Summary

Jarek has more than 20 years of experience in the Telecommunication industry, with 11 years of technical management experience in the implementation of Intelligent Networking and Online Charging systems.

Over the years, he worked with a large variety of clients in different countries, and successfully delivered projects across the region. During this process Jarek acquired a full life cycle experience in overall technical project scoping, planning, requirements gathering, solution architecture design, staging, configuration, testing, performance testing, tuning, deployment, network integration, migration and go-live of software for the Telecommunication industry.

Jarek was acting as a Technical Leader in delivery teams of size up to 18 members.

Key strengths: analytical and troubleshooting skills; strong performance both individually as in a team; self-motivated and disciplined; open and eager to learn about new technologies, paradigms and developments and open for travel.

Jarek holds a Master's degree in Electronics and Telecommunications from the Technical University of Wroclaw, Poland (2002), and speaks Polish and English.

Work experience

- **2022 – actual** – Contractor acting as a Technical Architect at MATRIXX Software, Inc. Responsible for architecture design & planning, installation upgrades, performance tests and upgrades of **MATRIXX Convergent Charging & Digital Monetization** application in Cloud Native environment using CI/CD and DevOps technologies. Responsible for design and implementation of DevOps & Automation pipelines for MATRIXX application.
- **2010 - 2022** – Consulting Technical Manager at Oracle / Warsaw. Delivering projects related to Network Charging & Control (**NCC**) platform by Oracle and Billing Revenue Management (**BRM**) and Elastic Charging Engine (**ECE**) by Oracle. Involved in pre-sales activities (projects scoping and quotation).
- **2006 - 2010** – Senior Solution Delivery Engineer at **eServGlobal / Warsaw POL** – professional duties: integration of Intelligent Networks / VAS infrastructure for largest fix and mobile carriers. Expert knowledge of Charging Max / Message Max / VoMS / UIP/IVR systems by eServGlobal. Involvement project quotation process.
- **2004 – 2006 – integration of Intelligent Networks at Siemens AG (now Nokia Siemens Networks/NSN) / Wroclaw POL and Berlin DEU –** Professional duties – end-to-end tests of IN infrastructure, integration of IN solutions on site, project leader for many projects (integration Intelligent Network projects such as Pre Paid Services, VPN, Mobile Number Portability, GMS-R for largest mobile carriers all over the world). Deep knowledge of @vantage IN by Siemens.
- **2001-2004 – work as an ISDN specialist at** *TP S.A.* Wroclaw (largest fix network carrier in Poland; now part of France Telecom). Professional duties: software developing for various telecommunication purposes (such as reporting, automatisation of maintenance tasks on telecom exchanges), maintenance work with EWSD exchange by Siemens, *SS7* and *E-DSS1* protocol tests, administration of Distributed Monitoring System Net-7 by Tektronix. During this time gained good knowledge about usage protocol analyzer K12xx – including scripting.

Education

- **2005** – ISEB Foundation Certificate in Software Testing,
- **1997-2002** – *Wroclaw University of Technology* - completed the *M.Sc* higher education studies in the field of *Electronics and Telecommunication* specialization of *Fixed Telecommunication* with the overall grade *Very Good,*
- **1993-1997** – Technical School of Electronics in Jastrzębie Zdroj.

Important Projects and Customers:

- **2024** – Implementation of **MATRIXX Convergent Charging & Digital Monetization** for Virgin Media O2 UK. Responsible for definition of the technical architecture of **MATRIXX** application running in VMO2's private Cloud Native cloud. Implementation of DevOps pipelines for MATRIXX project team.
- **2022 – 2024** – Implementation of **MATRIXX Convergent Charging & Digital Monetization** for Telefonica DE. Jarek is a key member of Infrastructure team responsible for deployment, migration and upgrades of MATRIXX platform in Google Cloud (Google Kubernetes Engine).
- **2020 – 2022** – Implementation of Cloud Native BRM/ECE stack for **Telia Company Finland, Norway, Denmark, Estonia**. Jarek was a member of Infrastructure & Foundation team responsible for platforms deployment in Cloud Native environment across Telia affiliates.
- **2017-2020** – leader of Billing Maintenance Team at **Telia Sweden Company**, providing of support and guidance for Telia in various areas around BRM/ECE. FY19 Q2 CGBU All-Star Team (CAT) award from Oracle Communications SVP in category "Customer Satisfaction".
- **2016-2017** - Implementation of Oracle Elastic Charging Engine (ECE) in context of RxDOD platform at **Telia Company Sweden**.
- **2014-2015** – Migration of legacy prepaid services to Oracle NCC platform for **O2 Czech**.
- **2012-2013** – Migration of legacy prepaid services to Oracle NCC platform for **Slovak Telekom**. Acting as a technical leader.

- **2011-2012** - Various engagements (great and small) with **Aspider** - leading MVNE in the Netherlands, including an NCC upgrade project and the implementation of an additional NCC platform in the US.
- **2010-11** – Migration of legacy IN platform handling NTS services such as Prime Rate, Free Phone, Televoting (70X, 80X) to Oracle's NCC platform. Migration delivered for **Telekomunikacja Polska** (part of **France Telecom).**
- **2009** – MVNE Charging Max platform (by eServGlobal) for **Vodafone Ireland**.
- **2008** - Deployment of an SCP (eServGlobal) for Diameter based Convergent Billing at **Orange Poland**,
- **2007** - Deployment of MVNE platform (eServGlobal) at **Orange Poland**,
- **2007** – Various IN implementations for **XL Indonesia** and **Telcomsel Indonesia** (eServGlobal)**,**
- **2007** – Migration of eServ Voucher Management System (VoMS) at **PTC Era Poland**,
- **2006** – GSM-R IN platform (Siemens) for **Ministry of Railway / China**,
- **2004** – Deployment of @vantage IN platform (Siemens) at **UMC Ukraine,**
- **2004** – Deployment of @vantage IN platforms (Siemens) at **PTC Era / Poland**. (PTC Era is part of T-Mobile group). This IN platform runs well known in Poland prepaid brands *Tak-Tak* and *Heyah*.

Professional skills

- Cloud
  - Very good practical skills in Container Orchestration Platforms (Kubernetes, Rancher, OC-CNE by Oracle)
  - Very good practical skills in cloud Observability: Grafana & Prometheus
  - Expert in Containers Technology (Docker), including applications containerization (creation of Dockerfiles, Helm charts, Kustomize deployments)
  - Very good practical skills in areas of Continuous Integration/Continuous Delivery (CI/CD) and DevOps: architecture, implementation and maintenance. Github Actions, Bitbucket Pipelines, Jenkins.
  - Good practical skills in Google Cloud (especially Google Kubernetes Engine, GKE)
  - Very good practical skills in Oracle public cloud (OCI)
- Telco
  - Good knowledge of 5G SA/NSA (CHF and Nchf interfaces – N40 and N28)
  - Very good knowledge of fixed and mobile (GSM) telecommunication networks,
  - Expert in Intelligent Network and VAS architecture
  - Expert in Price Plans configuration (Prepaid & Postpaid, NCC & BRM)
  - Expert in Intelligent Network services such as PPS, VPN, MNP, GSM-R, VCC, VSSP, (M)NP.
  - VAS systems – voucher management, IVR
  - Expert in protocols such as Diameter (Gy, Sy), SCCP, TCAP, MAP, CAP, INAP, Sinap, Sigtran, SOAP/XML, REST
  - Very good knowledge of protocols such as E-DSS1, ISUP, SIP, SMPP
  - Expert in protocol traces analyze – expert in handling protocol analyzers such as K12 by Tektronix, Wireshark
- IT
  - Expert in Linux-based operation systems (RHEL, Ubuntu). Very good knowledge of UNIX – based operation systems (Solaris 11).
  - Very good knowledge in Networking and Network protocols
  - Very good knowledge of virtualization platforms (Proxmox, qemu)
  - Very good scripting practice (Bash),
  - Very good understanding and programming in: C, C++, Objective-C, Perl, PHP, Java
  - Very good knowledge in: Oracle and SQL,
  - Knowledge of desktop based Operating Systems such as Mac OS X
- Experience in effort estimations – acting as a technical lead in Bids issued to eServGlobal and Oracle
- Polish (mother tongue), English (fluent), Russian (basic).

Other

- Driving license,
- Nonsmoker,
- Getting along with others, capability to work in a multicultural, international company,
- Strong self-motivation for learning of new technologies and solutions,

- Very good communication skills proven during many successful project and deployments,
- Willingness to travel much, ability to work well under pressure,
- Hobbies: road cycling & training, open-source projects (https://github.com/jaroslawhartman, https://jhartman.pl/)