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Sergey Korotonozhkin

Date of Birth	November 18, 1966, Kiev Ukraine

Professional experience

2001 – to date   **<u>AirNet pte. Ltd.</u>**   Kiev,Ukraine
Owner.

- Motorola systems Communications Systems Support....
- St. Petersburg, RCC-SBP, Russia. (SmartZone controller major failure case study, field repair, reconfigure the core from the scratch), as per direct Customer order. 2010, Feb 20. - result: up and running.
- Expansion (redesign, field upgrade and optimization) of State Borispol Airport system (analog SmartNet, 21 ch.), ordered by A.I.R., Inc. 2005, resulrt – up and running.
- Design and implementation of own Tripple Play system (area Glewakha, Kiev cty.) (UNIX, BSD) ... continuosly... -result: works.
- Design and implementation of own ISP and IPTV network (area: Vasilkovsky Dist, Kiev cty.) AirLine (tm) and AirVision(tm). ... since 2001 to date.
- Service and support of all Motorola CGISS Customers listed below, CIS, Qatar.
- CPC (Caspian Pipeline Consortium, RU-US, JV) - field redesign of CEB/Consoles, Astro-25 Hybrid SmartZone(M). Services ordered by Motorola. 2007 – done: up and running.
- Quatar, MOI, Astro-25 SmartZone/Digital/secure (M). Field activities (field re-design, upgrade, RF-upgrade, field staging, frequency planning, intermodulation studies, field RF-tuning, installation supervision, Customer training), some sites – R56 approval, as per Motorola contract. (ref: PM: Peter Shekleton) 2006 – done: up and running.
- St. Petersburg SmartZone analog (RCC, Ltd). Field Services. Problem discovery (Infrastructure minor failure case study), field repair, RF optimisation. (Services ordered by SIEMENS, Russia). 2004. - result: problem solved.

1999 – 2001   **<u>Self employed</u>**   Ukraine

Independent Contractor.

- Communications Systems Support (area: Ukraine, CIS).
- Trunked System Support and Services (Borispil State International Airport, Ukraine). - result: fully complies to APCO.
- Communications systems and network solutions consultancy and enginnering services.
- Custom product development (IPTV, Software and hardware development).

1997 – 1999 **Radio Networks & Comm's** Ukraine

Director of Systems Center, Ukraine.

- MPT1327, System Integrated and shipped to Customer (Switzerland), - still works.
- Trunked System Support and Services for Borispol Airport.
- Delivering Services for Cross LTD (Odessa, Ukraine) MPT1327 (system optimization and maintenance). - result: worked until replaced with tetra.
- SmartNet (Kiev 911 crisis center) System re-integration, re-tuning and Services (per contract with New Technologies, LTD, Kiev).

1994 – 1997 **Motorola, GmbH, RNSG (CGISS)** UA, UK, DE

(note: all listed are 1994-1997)

Motorola Radio Network Solutions Group, Project Engineer.

Systems Implemented, installed and accepted:

- 1. Borispol International Airport (Smart Net) – pre sales to implementation (m).
- 2. Minsk Airport (StartSite) – implementation (m).
- 3. Belarus Neft, (3 StartSites) – pre sales to handover (m).
- 4. "Cross" Odessa (MPT 1327) – pre sales to handover (m).
- 5. Moscow MOI (SmartZone) – SAT (Site Acceptance Test), 1st phase system build and test (m).
- 6. Russia, Sviaztransneft (ArcNet+) – Systems design, FAT (Factory acceptance), partially SAT (Site Acceptance), Installation supervision, commissioning (m) .
- 7. Northern GOK (SmartNet), Ukraine – from pre sales to implementation (m).
- 8. Poltavsky GOK (StartSite), Ukraine – SAT, services (m).
- 9. Beloyarskaya Nuclear Power Plant (SmartWorks), Russia – FAT,SAT, customer training, system familiarization (m), related field tasks.
- Others project involvement – partially or non-disclosure in effect .
- On Most Motorola projects Reported to Ulrich Rohlfing.

1996 – 1997 **Motorola, Ltd.** UK, Ukraine

Motorola European Cellular Infrastructure Division, Systems Engineer.

- Installation Supervision, GSM1800 network in Kiev, Ukraine (Golden Telecom).
- Software Upgrades, Base Station Controller, MSC, XCDR, D900 Switch.
- Reported to Mike Rumsey (m).

1994 – 1996 **Motorola, GmbH** Ukraine, DE, UK

Motorola Radio Network Solutions Group, System Engineer.

- Sales Support on pre sales and Sales phases, System Level Design, Build and Test (Basingstoke, UK), Installation supervision, Customer Training (BAS, TAU and on-site in the field), Factory Acceptance procedures (BAS), Site Acceptance Tests and System Familiarization (on site), SP (Special Product) development (TAU).
- Getting familiar (practically and deeply) with Motorola Trunked Systems (SmartNet, SmartZone, Astro, p25 and derivatives), including protocol details, interfacing, software, most infrastructure and subscriber equipment components down to low level hardware and software.
- Familiarized with TCP/IP networking, equipment and protocols while implementing ArcNet+ Wide Area Communications System .
- Gained experience in RF, RF combining technology and propagation / coverage studies.
- Reported to Peter Damerau.

1993 – 1994   **Motorola, GmbH**   Kiev, Ukraine
Motorola European Paging Subscriber Operations, Technical Consultant.
- Technical consultancy and technology promotional tasks in Ukraine.
- Most Activities: Delivering Sales and Technical Training to potential paging operators and Ukrainian authorities (teaming with (m) Corporate and Government Relations people).
- Delivering Consulting and training for type approval process of Motorola paging equipment in Ukraine and Russia.
- Achieved Licensing of 29 Ukrainian Paging operator companies, as part of international Motorola team.
- Reported to Bo Pyskir (Motorola, BDM, Ukraine, now CEO of Lemko Inc.) and Steve (Stephen) Hutchins (Mot EPSO).

1992 – 1993   **Radio Networks & Comm's**   Kiev,Ukraine
Development engineer.
- Development of wireless low-speed packet data switches and controllers (X.25).

1989 – 1992   **Micrograf International, UK-SU JV.**
Software Engineer.
- Project management developing PCAD II (Mechanical Engineering CAD software system).
- Contracted Graphics Software development with SoftKey, Canada.
- Binary Labs, Singapore, 1990-1991, DSP embedded system development (parts of PBX-switch) as per contract with Ericsson.
- Other mostly software and hardware development related and non-serious sales jobs (not easy to remember ;-).

Education/Training   1988   **Kiev Politechnical Institute**   Kiev,Ukraine
Electrical Engineer.
- General Electronics.

- Audio recording, Ultrasound underwater sonar technique, audio signal processing.

1995   **Systems Integration Institute** Basingstoke, UK
General Systems Implementation Process.
- Systems Implementation Process, algorithms and motorola-specific procedures.

1995   **Motorola GmbH**   Taunusstein, Germany
Motorola Systems Engineering trainings (Special stuff).

1996   **Motorola Ltd.**   Swindon, UK
GSM BSS, Series of Detailed GSM Network and Motorola Equipment training.
- TDM Switching technology.
- Motorola GSM networks operation details.

Self-Education.
- Computers and embedded, controllers (68xx, 8051), DSP (TMS320Cxx), associated hardware and software like assembly languages, real-time software tips (deeply). Microchip PIC (briefly).
- MC68HC11 (professional embedded experience).
- Windows NT – setup, configure, administer, familiar with kernel mode WIN32 driver development.
- Unix (FreeBSD), - (this time was a chick, "black belt" level, now ;-).
- Hi level languages C, Pascal/ObjectPascal, Perl, Php, DB: MySQL.
- Digital Signal Processing (self trained on TMS320C25).
- Power Applications, Ideas, Schematics, Power FETs and IGBTs, schematic details (thanks to Michael Bairanzade (m)).
- Spread Spectrum and CDM Technology, ideas, patents... e.t.c.

Patents and publications

1984, Scientific publications (4) in the field of Acoustics and sonar signal processing.

1995, Motorola Patent Disclosure. Implementing DSP technology for pulse overdialing recognition in telecoms network infrastructure.

2010, Patent pending: trunking in IPTV Head end implementation.

Additional professional activities

Development of different internal SP software and hardware tools simplifying system staging, test and service process. Most of them are PC-based software and associated hardware for SmartNet and derivatives, Jedi's, Renaissance's, SP firmware. (Details may be disclosed to Motorola only because most things are Motorola proprietary).

Status	Married, have a son.
Languages	English, Russian (Native), Ukrainian.
Others	Communicable, Company loyal, driver's license, elected deputy to city Council of Hlevakha.
Hobbies	Amateur Radio, first class license, call: UT5USA, Experimenting with complex modulation technique. Sports: table tennis.
REFEREENCES	Sergey Yatsenko (Mot. Ukraine), Tanya Likhachova (Mot. , Rohill), Motorola HR, Ulrich Rohlfing (m), Peter Shekleton (m), Roger Tickle (m), other people, referenced above…