Drasko Draskovic

R&D Engineer and Software Architect

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Work Experience

Nokia

📅 November 2014 – Present   ● Paris, France

Senior R&D Engineer and Software Architect

- Obtained grant from internal Nokia internal Venture Capital accelarator to bootstrap new bussiness around Blockchain technology:
  - Architectured and implemented (from scratch) IoT data monetization platform based on Hyperledger Fabric blockchain, with internal cryptocurrency Smart Contract and complete security and deployment infrastructure
  - Invented and filed a patent on mechanism for temporary data stream access via blockchain-configured decentralized proxy
  - Managed a team of 4 developers
  - Designed start-up finance and marketing plans and managed relations with investors and various stakeholders
  - Led two big international pilot projects for blockchain product with telecom operators from Europe and Middle East
- Implemented (in C++) 5G features for new Nokia projects
- Assured Quallcom deliveries of Linux BSP for multi-standard LTE femto-cells on projects for AT&T and T-Mobile

Devialet

📅 March 2013 – November 2014   ● Paris, France

Software Architect

Work on system design and embedded SW architecture of wireless digital audio system based on dual-core ARM Cortex-A9 FPGA with custom hard-RT Xenomai-patched Yocto Linux kernel and dual-band 802.11abgn WiFi connection.

Sequans Communications

📅 June 2010 – March 2013   ● Paris, France

Embedded Platform Engineer

Work on platform enablement, system and device drivers for LTE multi-processor SoCs, based on ARM and MIPS architectures with eCos RTOS (for baseband CPU) and Linux (for application CPU).

Elsys Design

📅 June 2006 – June 2010   ● Paris, France

Software Engineer

Consulting work in SW engineering for various clients: **Philips** (Set-Top Box for *Canal+*), **Spidcom** (Linux kernel and device drivers for ARM-based PLC SoC) and **Texas Instruments** (OMAP platform development)

Education

Diploma Engineer (equivalent to M.Sc.)
School of Electrical Engineering, University of Belgrade, department of Electronics, Telecommunications and Control

Master Thesis in Audiotechnics : *"Analysis of Methods And Applications for Artificial Reverberation"*

Technical Skills

IoT and **Blockchain** expert with entrepreneurial spirit and over 10 years of professional experience in:

Arch	Scalable distributed systems, decentralized computing and p2p messaging, edge computing, message buses, microservices, 5G, security, API design, logging & instrumenting, domain-driven design, cloud-native, twelve-factor apps
HW	Linux kernel and device drivers, RTOSes, bootloaders, JTAG debugging, communication protocols (WiFi, BLE, 6LoWPAN, LoRaWAN), HW interfaces (I^2C, SPI, UART, USB), FPGA & PCB design
SW	C/C++, Go, Python, Erlang/OTP, Elixir, NodeJS, Lua, Rust, Bash, Perl, Nim
DevOps	Docker, Kubernetes, Ansible, CI, Load Balancers, Reverse Proxies

Open-Source Projects

GNU and FOSS evangelist, implicated in many open source projects in domains of architecture, development, maintaining, documentation and support.

- EdgeX Foundry by Linux Foundation – maintainer
- Mainflux IoT Platform – author and main architect
- WeIO IoT Board – author and main architect

Publications & IP

📖 Books

- Ervin Varga, Drasko Draskovic and Dejan Mijic, *"Scalable Architecture for the Internet of Things"*, O'Reilly Media, 2018.

📄 Patents

- Drasko Draskovic and George Saleh, *"Mechanism and Aparatus for Selling Data Streams via Blockchain with Temporary Proxied Access"*, PAN 18305283.6, Nokia, 2018.

🏆 Awards

- Innovation Award - Linux Foundation's EdgeX Foundry Community Awards 2018
- Contribution Award - Linux Foundation's EdgeX Foundry Community Awards 2018

👥 Conferences

- Open IoT Summit, *"Hyperscalable Unified IoT Architecture"*, Linux Foundation, Portland, USA, 2018
- Software Architecture Conference, *"Architecturing and Securing IoT Platforms with Microservices"*, O'Reilly, London, UK, 2017
- Open Networking Summit, *"IoT and Networking – Architecture, Requirements & Implementation"*, Linux Foundation, Santa Clara, USA, 2017

Communication Skills

English (excellent), **French** (excellent), **Russian** (understanding), **Serbian** (mother tongue)