

## PERSONAL INFORMATION

Title: Ing., Ph.D.

Name: Vladimír

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## CURRICULUM VITAE

### 1. EDUCATION

2008 - 2015: Technical University in Brno, Microelectronic wireless networks for telemetry and building automation (Ph.D.)

1988 – 1992: Czech Technical University in Prague, Faculty of Electrical Engineering Master of Science (MSc), Computer Dep't: Systems Programming

### 2. CAREER

1991 – 1999: MICRORISC Technology spol. s r.o.

- Co-owner, CEO

1999 – now: MICRORISC s.r.o.

- Co-owner, CEO

2017 – now: IQRF Tech s.r.o.

- Co-owner, CEO

### 3. KEY PATENTS

United States Patent US 9,615,308 "SYSTEM FOR MESSAGE ACKNOWLEDGEMENT AND DATA COLLECTION IN WIRELESS MESH NETWORKS, priority 2015, granted in 2017.

United States Patent US 7,167,111 "METHOD OF CODING AND/OR DECODING BINARY DATA FOR WIRELESS TRANSMISSIONS, PARTICULARLY FOR RADIO TRANSMITTED DATA, AND EQUIPMENT FOR IMPLEMENTING THIS METHOD", priority 2004, granted in 2007.

United States Patent US 8,681,656 "CONFIGURING A WIRELESS MESH NETWORK OF COMMUNICATION DEVICES WITH PACKET MESSAGE TRANSMISSION, AND ROUTING PACKET MESSAGE TRANSMISSION IN SUCH A NETWORK", priority 2010, granted in 2014.

United States Patent US 9,179,498 "SYSTEM FOR WIRELESS MESH NETWORK COMMUNICATION", priority 2010, granted in 2015.

EU Patent EP 1659749 "METHOD OF CODING AND/OR DECODING BINARY DATA FOR WIRELESS TRANSMISSIONS, PARTICULARLY FOR RADIO TRANSMITTED DATA, AND EQUIPMENT FOR IMPLEMENTING THIS METHOD", priority 2004, granted in 2013.

EU patent EP2846584 "METHOD OF MESSAGE ACKNOWLEDGEMENT AND /OR DATA COLLECTION", priority 2013, granted in 2015.

### 4. KEY PUBLICATIONS

V.Sulc, "WIRELESS MESH NETWORKS DEMYSTIFICATION", The 5th International LED professional Symposium +Expo, Bregenz, Austria, 2015. P.266 – 275. ISBN 978-3-9503209-6-1.

V.Sulc, R.Kuchta and R.Vrba, "RELIABLE TECHNOLOGY FOR WIRELESS MESH NETWORKS WITH LOW SYSTEM REQUIREMENTS", The Eleventh International Conference on Networks, Saint Gilles, Reunion, 2012. p. 159 – 164. ISBN 978-1-61208-183-0.

V.Sulc, R.Kuchta and R.Vrba, "IQMESH IMPLEMENTATION IN IQRF WIRELESS COMMUNICATION PLATFORM", 2nd International Conference on Advances in Mesh Networks, Glyfada, Greece, 2009. R.Kuchta, R.Vrba, and V.Sulc, "SMART PLATFORM FOR WIRELESS COMMUNICATION - CASE STUDY", Seventh International Conference on Networking, Cancun, 2008.

ŠULC, V. "DIRECT ACCESSING THE PERIPHERALS OF COMMUNICATION DEVICES CONNECTED IN WIRELESS NETWORKS." Conference Proceedings EDS 2008. Brno. 2008. p. 1 - 4. ISBN 978-80-214-3717-3.

## 4. KEY PROJECTS

FI-IM4/034 – Smart platform for wireless communication (2007-2010, MPO/FI)

FR-TI1/058 - Intelligent house-open platform (2009-2012, MPO/FR)

FR-TI3/254 - Open platform for telemetry (2011-2014, MPO/FR)

FR-TI3/275 - Open platform for smart cities (2011-2014, MPO/FR)

FV-40303 - Communication infrastructure for battery powered devices (2018-2021, MPO/FV)

## 5. SUMMARY

Vladimir Sulc is a founder and CEO of MICRORISC s.r.o. ([www.microrisc.com](http://www.microrisc.com)), based in Jicin, Czech Republic.

Since 1991 Vladimir has been working on many projects related to wireless communication and security. He specializes in LR-WMNs, mesh networking algorithms and security. He is author or co-author of over 40+ patents in CZ, EU, US, JP or CN.

As a leader of several contracts granted mainly by Czech Ministry of Industry and Trade he is actively working on projects related to his specializations: Open Wireless Communication Platform, Smart House - Open Platform, Automatic Enumeration and Identification System, and Open Platform for Telemetry.

Dr. Vladimír Šulc is a Fellow of International Academy Research and Industry Association (IARIA – [www.iaaria.org](http://www.iaaria.org)) and has been active in IARIA conferences since 2009. Papers "IQRF Smart House - A Case Study" presented at MESH 2010 and "IQMESH, Technology for Wireless Mesh Networks: Implementation Case Studies" presented at ICNS 2012 were awarded by Best Paper Awards.