## **Marcin Aleksander Nowak**

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Mobile +41 76 501 0521

Homepage <a href="http://resume.marcinnowak.info">http://resume.marcinnowak.info</a>

Nationality Polish

### **Expertise:**

Software Architecture Hoisting, Analysis, Evaluation, Patterns and Styles, ATAM, CBAM,

Requirements and Decisions Management, 4+1 Views, ADD, Twin Peaks

Model, ISO 42010,

Coding Java, .NET, C/C++/C#, Ruby, Python, R, Groovy, JavaScript, Bash, Toolchain J2EE, RAML, Docker, Maven, Jenkins, GCP, AWS, SonarQube, VS

Software Engineering TDD, BDD, Code & Process metrics, Static and dynamic verification, CI,

Development Process Agile, RUP, TFS, Scrum, Kanban,
Modeling XML/XSD, JSON/JsonSchema, UML

Web Apache, nginX, Node.JS, Backbone.JS, Marionette, Angular, RoR, Play,

Operating Systems Linux, OSX, Windows, Android,

Physics Laser Optics, Modeling of Physical and Chemical processes,

Certifications SEI Software Architecture Professional, MS 70-529, MS 70-536,

OMG OECB Fundamental, ISTQB Tester

## **Professional interests:**

Full-stack and back-end solutions, IoT, (micro-) service, cloud, serverless

architectures, machine learning, big data

## **Academic path:**

Mar. 2009 – Sep. 2014 Ph.D. - Computer Science at University of Lugano, Switzerland

Collaborative architecture decisions modeling, <a href="https://goo.gl/QqTBqy">https://goo.gl/QqTBqy</a>

Software Architecture Warehouse https://goo.gl/2LFSQ0

Oct. 2004 – Jul. 2007 M.Sc. - Graduate Studies in Physics at University of Hannover, Germany

Laser spectroscopy of ultracold SO<sub>2</sub> molecules http://goo.gl/k8bhlt

Sep. 2001 – Jun. 2004 B.Sc. - Physics at University of Poznań, Poland

#### **Selected Publications:**

Marcin Nowak, Cesare Pautasso "*Team Situational Awareness and Architectural Decision Making with the Software Architecture Warehouse*" in Proceedings of the European Conference on Software Architecture (ECSA) 2013, Montpellier, France

Marcin Nowak and Cesare Pautasso "Collaborative Design with the Software Architecture Warehouse" At SATURN Conference, Carnegie Mellon, Software Engineering Institute, San Fransisco, CA, 2011

## **Professional Path:**

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Sept 2018 - now	Sonyx Software Self-employment – cryptocurrency trading, i (algorithmic trading, private cloud, MQTT, A	- ·
Nov. 2015 – Sept. 2018	swissQuant – www.swissquant.com Maintained and extended java core compone optimization. Modeled and implemented com (Mixed-Integer Quadratic Problem optimization)	nponent's RESTful API.
Nov. 2014 – Nov. 2015	Roche Diagnostics International – roche.com Designed of testing architecture, analyzed ex the Cobas Liat point of care molecular diagno (MS VS, BDD, TDD, EA, UI testing, TFS)	xisting software architecture for
Mar. 2009 – Sept. 2014	University of Lugano – www.usi.ch Research and Teaching assistant for Bachelo Technologies) and Master (Software Architec Design, coordination, and development of So (RoR, Backbone.JS, Marionette)	cture and Design) courses.
Jan. 2008 – Feb. 2009	Zühlke – www.zuehlke.com Supported Software Engineers in software deprocess, architect and analyst, Microsoft .NE (.NET, TFS, Biztalk)	
Aug. 2007 – Dec. 2007	Sonyx – www.sonyx.net (Brem Self-employed freelancer working with heavy consulting on software architecture analysis, (C# .NET, C++, Design Patterns)	
Mar. 2005 – Aug. 2007	IKN – www.ikn.eu (Neustadt am Rüber Developed of the XML data input/output systems clinker processing line (C# .NET, XML, XSLT)	
Dec. 2006	Lafot & UniColor International – www.lafot.com (Bejing, China) Short time contract on the implementation of windows+linux color management and image processing system. (C++, QT, .NET)	
Jan. 2006 – Apr. 2006 Jun. 2005 – Aug. 2005	IKN & PSP – www.pspeng.cz Refactored and improved of clinker line mod windows system engineering, wiki and revisi	
Jan. 2000 – Feb. 2005	Lafot – www.lafot.com (P	Puszczykowo, Poznan, Poland)
	Medium scale MS VisualStudio .NET (C++) based image processing project manager & co-developer, build and code versioning controller	
	Developed embedded QT framework based a distributed network of microcontrollers, Lir embedded client-server application development	nux kernel extensions,

# Language skills:

Polish native

English proficient (C2) German fluent (B2/C1) Italian basic (B1)

## **Personal points of interest:**

Bitcoin trading, Alpine skiing, mountaineering, snowshoeing, and hiking, Motorcycle touring, IoT home automation and robotics, Acrylic painting