

Matti Vuori

I am an experienced and versatile expert of quality, research and development. I'm known as a high-level expert of quality assurance, usability, software processes and risk management. I have experience of researcher's work, development consulting, training, quality manager's job and service design. The list of my publications presents the scale:

<https://www.mattivuori.net/julkaisuluettelo>.

People know me for productivity, critical thinking, dependability and creativity. I prefer competence-intensive jobs, diverse jobs, where things – activity, systems or products -- are developed.



matti.vuori@mattivuori.net +358 50 360 5429, Tampere, Finland

Home page: <https://www.mattivuori.net>, LinkedIn: <https://www.linkedin.com/in/mattivuori/>, Mastodon: @Matti_Vuori@Mastodontti.fi

Education

Degree:	M.Sc, machine technology, 1986, Tampere University of Technology Almost Doctor of technology (software engineering)
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Essential work experience

Tampere University of Technology: Doctoral student (researcher, teacher)

Time:	08/2011 – 12/2016
Duties:	Dissertation work about testing and QA competence needs in Finland during the coming years (400+ page monograph) Testing course lecturer 2012-2015 Project work course leader 2014 Project manager and developer in InnoPilotti-project , which developed practices for universities' participation in Demola Researcher in ATAC project , which developed test automation for complex systems Researcher in RATA project , which developed robot assisted testing Arranging Testing day, 300+ participant seminar for TUT and Pitky 2012, 2014 and 2016
Time:	03/2011 – 05/2011
Title:	Project researcher
Duties:	<ul style="list-style-type: none"> Subject was agile development of safety-critical systems (IEC 61508) – output two hundred-page reports

Cybercom Plenware (prev. Plenware, Almare Systems): Product manager, consulting; consulting; quality manager (2003)

Time:	01/2003– 12/2009
Duties:	Quality and testing consulting <ul style="list-style-type: none"> Quality assurance consulting and training. Testing process evaluation and development services.

	<ul style="list-style-type: none"> • Participation in Finnish testing community (TestausOSY/FAST) and in the Finnish board of ISTQB testing certification system. • Testing training business • Development of training material for testing, quality and risk management and other areas (nearly 3000 pages) <p>Usability consulting</p> <ul style="list-style-type: none"> • Usability analyses and testing • Usability consulting and training • Participation in usability community in the board of Sytyke's usability competence community (KäytettävyysOSY) <p>Other consulting</p> <ul style="list-style-type: none"> • Risk management consulting and training • Technology and product development consulting • Process development consulting • Development of consulting services • Internal quality and risk management system development
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Technical Research Centre of Finland VTT: Research scientist

Time:	1986-2000
Duties:	<p>Research and development in the following areas</p> <p>1) Product development.</p> <ul style="list-style-type: none"> • Method development for product usability assurance and methods for managing usability. • Usability evaluation and testing of products, usability training. Human errors research. Quality of documents. User centered product development and its techniques. See: https://www.mattivuori.net/julkaisuluettelo/#kayttajakeskeisyys • Future oriented product and user interface development. See https://www.mattivuori.net/julkaisuluettelo/#tuotekehitys <p>2) Risk management in companies. See: https://www.mattivuori.net/julkaisuluettelo/#riskienhallinta</p> <ul style="list-style-type: none"> • Development of risk management tools for SMEs, Main author of toolset Risk management for SMEs. • Product development risk management. • Development of safety information systems and decision support software and hyperbook systems. • Product safety and safety analyses. • Information security risk management. <p>3) Method development for workplace design.</p> <p>Internal process development, including a task as the manager of QA system development project.</p>

Professional skills

Product quality assurance and testing	<p>Quality manager skill set, quality assurance, quality assurance systems, testing, evaluation and development of testing, testing and QA training, test planning, most test types. Dissertation in the making about testing competences needed in near-future Finland. See the list of publications at https://www.mattivuori.net/julkaisuluettelo/#laatu</p>
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Developing of usability and user interfaces	<p>Methods of assuring usability, method development; utilization in industrial context, training. Human errors. Skills applicable for all product/system types.</p> <p>Analysis of visual design and brand issues.</p> <p>See the list of publications (in Finnish) at https://www.mattivuori.net/julkaisuluettelo/#kayttajakeskeisyys</p>
Quality of robotic and artificial intelligence systems	<p>Sociotechnical quality of robot systems. Testing and ethics of AI systems. Testing robotics.</p>
Strategic product development	<p>Future product development, technology strategy development, roadmapping, creativity techniques. See the list of publications (in Finnish) at https://www.mattivuori.net/julkaisuluettelo/#tuotekehitys</p>
Risk management	<p>Risk management methods and tools. Project risks, information risks, product development risks, safety risks, operational risks. RM training. See the list of publications (in Finnish) at https://www.mattivuori.net/julkaisuluettelo/#riskienhallinta</p>
Information security	<p>Risk analysis, system reviews, functional information security testing</p>
System and business ethics	<p>Process of creating ethical principles. Listing of ethical principles for various purposes (testing, information systems projects, artificial intelligence)</p>
Teaching and training	<p>Teacher at TUT 2012-2016 (testing course, project work course).</p> <p>Leading of two 3-month adult education courses for UTA (software testing and Symbian C++)</p> <p>Since early 1990s trained in several companies and provided internal training for topics as quality, testing, usability, developing of future products, risk management, requirement specification, consulting, roadmapping, strategy development and product documentation. Have done several public presentations and lectures.</p>
Publishing	<p>WWW design since 1995. Development of publishing systems since 1996. PDF publishing. Writing and editing of articles, reports, publications. Editor of Laatu ja testaus magazine (2013-2020) and Pitky's anniversary publication 2016. Knows Drupal and WordPress</p>
Consulting	<p>Analysis of an organization's software, product development and testing processes. Planning of development activities. Development of technology management. Development projects.</p>
Project work	<p>Experience of various kinds of projects; leading and participations: research projects, software development projects, delivery projects, training projects, publishing projects. Project course leader at TUT in 2014</p>
Software process development	<p>Development of activities and processes. Process assessment. ISO 9001 (and 90003), CMMI. Developed own needs-based assessment techniques.</p>
SW development	<p>Process development and tool development (for example, a large number of instructions / guidelines, document templates and check lists). Research and teaching. Consultation. Personal implementation level experience of information systems and personal tools. (Android camera app in Qt as current hobby)</p>

Agile software development	Agile development, agile testing, general agility (see article in <i>Systeemityö</i> magazine in 2007). Research on agile development of safety-critical systems. https://mattivuori.net/julkaisuluettelo/#ketteryys
Programming languages	Since 1983 C/C++, VBA ja Visual Basic, Perl, Symbian C++. Java, JavaScript, PHP, SQL, Paradox PAL, ToolBook, Python. Environments: MS-DOS, Windows, S60/Symbian, Qt/Maemo & MeeGo, Qt/Android, Pebble smartwatch.
Open source	Development of OS risk management training material. Has carried out a business analysis for a company of publishing of existing s/w products as OS. Member of COSS steering group (2008)
Customer satisfaction surveys (B2B)	Definition of customer satisfaction criteria, surveys, deep interviews.

Language skills

Finnish	Native speaker
English	Fluent – I have written thousands of pages in English
Swedish	Basics – currently read magazines in Swedish monthly
German	Basics – currently read magazines in German monthly

Publications

List of publications	Too long to reproduce here. See https://www.mattivuori.net/julkaisuluettelo/ English publications only https://mattivuori.net/publications/
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Positions of trust and fellowships

Board membership	Chairman of Information Processing Association in Pirkanmaa Region 2015-2017 and 2020-2022, and board member 2012-2014 and 2019 Pitky's operations inspector 2023 TIVIA's election board member 2020-2022 Cybercom Plenware's representative in COSS's board in 2009 Sytyke's testing competence community TestausOSY steering group chairman 2013-2023/09. Sytyke's usability competence community KäytettävyysOSY board chair 2009-2011. FiSTB (Finnish board of International Testing Qualifications Board, ISTQB) board member 2004-2011
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Other

Hobbies	Photography – including developing of a camera application for Android Music (listening) Making computer programs for personal needs Literature on strategic planning, organisational development and management/leadership
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