

CURRICULUM VITAE



PERSONAL INFORMATION

Name Adj. Prof., D.Sc. (Tech.), Johannes Jussinpoika Holvitie
Born in Turku, Finland, 3rd of September, 1989
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WORK EXPERIENCE

- VSHVA* 2021 – Program Director (ICT),
WELLBEING DISTRICT OF SOUTHWEST FINLAND
Planning and executing ICT strategy for the developing Wellbeing District of Southwest Finland. Chairs and memberships in regional, national, and international steering groups defining health services, systems, and supporting infrastructure.
- VSSHP* 2019– Program Director (Electronic Services) &
Chief Development Officer (interim),
HOSPITAL DISTRICT OF SOUTHWEST FINLAND
Oversight of electronic services development for the hospital and for the social- and healthcare reform of the Southwestern Finland region. Management of project portfolios implementing government funded digital reform undertakings with a total valuation in excess of three million euro.
- UTU* 2017– Senior Researcher,
UNIVERSITY OF TURKU
Founder of the University of Turku Software House; an in-house startup factory. Project lead and systems architect in several University of Turku's software engineering and digitalization projects. Research and teaching on software business, development, quality management and application in complex public and private contexts.
- Auditum* 2011– Head of ICT & Board Member, AUDITUM OY
Responsible for managing ICT operations in the privately held company. Providing client projects with software development expertise in the form of off-site consultancy. Board member since 2015.
- TYKS* 2018–2019 ICT Architect,
TURKU UNIVERSITY HOSPITAL
ICT infrastructure development through medical device and services development, platform implementation, and regulation adherence. Steering group memberships on healthcare systems and data infrastructure definitions.
- TUCS* 2012–2017 Project Manager & Researcher,
TURKU CENTRE FOR COMPUTER SCIENCE
Doctoral thesis research on technical debt, software engineering process improvement, efficiency, and quality in the TUCS (Turku Centre for Computer Science) Software Development Laboratory and University of Turku, Department of Information Technology and Department of Future Technologies.
- UTU* 2011–2012 Scholar & Teacher, UNIVERSITY OF TURKU
Scholarship researcher. Designed and realized a system maintenance project as part of a research group, and implemented parts of the Distributed Systems Design and Techniques teaching contents at the University of Turku Department of Information Technology.
- PMOY* 2010 Software Developer, PMOY
Database and web-service development for a public relations company.

EDUCATION

<i>Adjunct Professor</i>	2021	University of Turku, Turku, Finland Software Engineering, Dept. of Computing Especially for the field of <i>Software Development and Business</i> .
<i>Doctor of Science (Technology)</i>	2012–2017	University of Turku, Turku, Finland Software Development, Dept. of Future Technologies Topic: <i>Technical Debt in Software Development – Examining Premises and Overcoming Implementation for Efficient Management</i> . The thesis designs new technical debt management methods with the intention of being minimally disruptive to existing software development processes.
<i>Master of Science (Technology)</i>	2008–2012	University of Turku, Turku, Finland Software Engineering, Dept. of Information Technology Topic: <i>Code level Agility and Future Development of Software Products</i> . The thesis concentrated on designing and implementing a modernization of a software system from the perspective of agile development.
<i>Bachelor of Science (Technology)</i>	2008–2011	University of Turku, Turku, Finland Software Engineering, Dept. of Information Technology. Topic: <i>On First-Degree Edge Detection Algorithms and their Operators</i> .

PROJECT MANAGEMENT EXPERIENCE

<i>Certificates</i>	<i>Program Director’s Training</i> , Project Institute Finland Ltd., 2018 <i>Strategic Leadership and Management</i> , Tiedonvalo Oy, 2018
<i>Development</i>	Project lead, software architect, and senior software engineer for development projects ranging from cross-platform web services and critical authentication systems to legacy enterprise resource planning systems
<i>Procurement</i>	Facilitated and consulted competitive procurement of software systems for multiple organizations in excess of three million euro.
<i>Recruitment</i>	Implemented recruitment campaigns as well as facilitated and consulted recruitments for multiple organizations. <i>Over twenty software developer and designer work contracts</i> have been issued as result of these actions.
<i>Consulting</i>	Acted as a neutral party and consultant for several software projects and as hired oversight for infrastructural acquisitions.

TEACHING EXPERIENCE

<i>Aalto University</i>	Postgraduate level: <i>INFORTE - Technical Debt Management Workshop and Software Architectures</i>
<i>University of Turku</i>	Postgraduate level: <i>Research Seminar on Software Engineering</i> Master’s level: <i>Acquisition of Information Systems, Digitalization as Change Enabler, Enterprise Resource Planning Systems, Software House, Designing Object-Oriented Software, Capstone Project, Lean Software Start-up, and Project Management</i> Bachelor Level: <i>Fundamentals of Software Development, Programming Languages and Paradigms, Distributed Systems Design and Basic Course in Object-Oriented Programming</i>
2	<i>Two</i> Doctoral theses in Technology or Natural Sciences (ongoing)
26	<i>Twenty six</i> Master’s theses in Technology or Natural Sciences
20	<i>Twenty</i> Bachelor’s theses in Technology or Natural Sciences

REPRESENTATIVE EXPERT GROUP TRANSACTIONS

<i>SOTE ATK</i>	Chairperson for the session on “ <i>How digitalization enables transforming operations</i> ”
<i>Finnish Standards Association</i>	Member of the <i>SFS/SR 314 “Software Development and Systems Engineering”</i>

	standardization group
Health Campus Turku	Health Campus Turku's Terveysteknologia NYT seminar. Topic " <i>Terveyskylän teknologiaratkaisuja ja palveluarkkitehtuuri</i> "
Basware Oyj	Invited keynote speaker in Basware's seminar Lead the change. Topic " <i>Digitalization and Business Ecosystems</i> "
NDED	Invited keynote speaker in National Doctoral Education Days Topic: " <i>Digitalisaatio käytänteiden mahdollistajana - Esimerkkejä UGIS-järjestelmästä</i> "
Dagstuhl	Invited participation in Dagstuhl Seminar 16162. Topic: " <i>Managing Technical Debt in Software Engineering</i> "
FiSMA ry	Invited talk in FiSMA's seminar Spin 2. Topic: " <i>Technical Debt and Its Management – Views from the Industry</i> "
Coimbra	Invited talk in Coimbra Universities Annual Meeting Topic: " <i>University of Turku Graduate School Information Systems</i> "

HONOURS

SPE	Journal of Software: Practice and Experience, 2018.
WIS	Well-Being in the Information Society, 2018.
KAUTE	Finnish Science Foundation for Economics and Technology, 2015.
TES	Finnish Foundation for Technology Promotion, 2015.
UT	Ulla Tuominen Foundation, 2015.
CST	Computer Systems and Technologies, 2015.
NFS, NFS	Nokia Foundation Scholarship, 2014, 2013.

PUBLICATIONS

34	Thirty four peer-reviewed scientific articles
3	Three non-refereed scientific articles
4	Four publications intended for professional communities
3	Three theses
1	One intellectual property disclosure
2	Two ICT software

OTHER ACADEMIC TRANSACTIONS

Reviewer	IEEE Access Journal of Systems and Software Journal of Software: Practice and Experience Journal of Software: Evolution and Process International Journal of Software Engineering and Knowledge Engineering
PC Member	International Conference on Technical Debt 43 rd Euromicro Conference on Software Engineering and Advanced Applications 15 th International Conference on Computer Systems and Technologies 14 th Symposium on Programming Languages and Software Tools

OTHER INFORMATION

Communication Skills	Multiple keynotes at international conferences, seminars, and workshops. Consultant and stakeholder representative in procuring and designing services in demanding (e.g., healthcare, aerobiology, and marketing) contexts.
Languages	FINNISH (native tongue) · ENGLISH (fluent; dissertation language), SWEDISH (intermediate) · GERMAN (basic)
Interests	Weightlifting · eSports · Cycling · Running · Electronics

January 28, 2022