

Matti J Kinnunen

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Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT), Cambridge, MA February 2006
Master of Science in Engineering and Management
Majors: System Architecting, Product development, Technology Strategy

UNIVERSITY OF HELSINKI, Helsinki, Finland December 1995
Master of Arts in Theoretical Philosophy
Minors: Mathematics, Statistics, Sociology, and Environmental Science.

Experience

FINLAND POST CORPORATION, Helsinki, Finland
Systems architect / Technical project manager 2006/12 – 2007/03

- Systems architecture design and technical project management of next generation letter sorting systems
- SW architecture for letter sorting data warehouse, address database and sort plan generator.

NOKIA NETWORKS, Helsinki, Finland
Head of Competitive Intelligence / **Senior system specialist** 2006/03 – 11

- Establishing and heading the CI of WCDMA RNC R&D
- Process and organization architecture development of the Nokia WCDMA RNC R&D (600+ employees in 4 continents).
- Architecture reviews and audits.

Project Manager / **Chief Engineer** 2004/07-12

- Defined and managed a project for developing a performance modeling and analysis tools for Nokia's WCDMA network elements.
- Managed the selection of external tools and tools integration.

NOKIA NETWORKS, Hangzhou, China
System Architecture Team Leader / **Chief Engineer** 2003 – 2004/06

- Recruited nine Chinese system architect candidates to establish a system architecture team; the team increased the performance of the product by 400%.
- Developed group work tools and processes, and documentation structures for international, multi-culture system architecting work.
- Managed the 100-person site and planned strategy as a member of the site management team.
- Managed university co-operation with the Zhejiang university.

NOKIA NETWORKS, Helsinki, Finland
System Architect / **Chief Engineer** 2001- 2002

- Designed and managed the system architecture of the 1000-processor WCDMA network elements RNC and MGW.
- Defined and managed system and SW architecture projects of up to 50 architects and senior developers. .
- Designed a new system start-up procedure, improving the start-up time 500%; down to 4 minutes
- Technically led 350 software and hardware engineers in implementing the system architecture.

- Designed the system dimensioning and configuration toolset and supervised its implementation.
- Defined integration and system testing processes and test cases.
- Selected third party SW and HW and managed its integration to the product.
- Designed and led internal training in the system architecture in Finland, Germany, Hungary, India, Australia, Singapore, and Taiwan.
- Supervised a Master thesis in computer science on performance simulation.

Software Architect / Chief Engineer 1999- 2000

- Designed SW architecture of Nokia's WCDMA networks elements' switching platform.
- Created a simulation system for the system and detected 40-fold performance deficiency; designed a more efficient software architecture, which solved the performance problem.
- Technically led 70 software engineers in implementing the new software architecture in several departments.
- Developed SW design implementation processes, methods, and tools as member of the process and quality team.

Software Engineer / Senior Engineer 1998

- Led a technical team of 5 programmers implementing connection admission program for ATM based network element.
- Supervised a Master thesis in computer science on data mining.

UNIVERSITY OF HELSINKI, Helsinki, Finland

Programmer 1997

- Developed databases and computer programs in Perl for analyzing large corpora of different natural languages speeding up the analysis 100-fold.

Researcher 1996

- PhD-studies in philosophy, logic and computational linguistics.
- Programming grammatical frameworks in functional languages.

Languages & IT

Languages: Finnish (Native), English (fluent), Swedish (fluent), German (fair)

IT, tools, modeling languages: Perl, C, Awk, Haskell, ML, Prolog, UML, SDL, OOAD, software architectures, Doors, OPM, OPN, System dynamics, Optimization, Unix, Linux, IPC-systems, reliability analysis, performance analysis

Patents

Holder of some US-patents on telecommunication network elements.

References available on request