

Tero Juhani Keski-Valkama, MSc  
**Hacker / Machine Learning Generalist / Innovator in Software**  
**20+ years of experience in software engineering, machine learning and leadership**

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Recommendations available in [LinkedIn](#).

## Degrees

**Master of Science (technology)**  
Tampere University of Technology,  
2008

Major:  
Software Engineering  
Minor:  
Technical Mathematics

6 months of international studies:  
Universiti Sains Malaysia

## Postgraduate studies

Tampere University of Technology  
Subject:  
Deep learning: Applying modern machine learning to  
industrial log anomaly detection  
Minors:  
Learning systems  
Signal processing

## Publications

Procedia Computer Science, December 2017:  
["A Simulator for Event-oriented Data in Flexible Assembly System Fault Prediction"](#)  
Master's thesis:  
["Carbook: A Platform for Mobile Automotive Services"](#)  
5 patents, 8+ patent applications, several white papers,  
scientific and corporate blog articles

## Awards & achievements

1<sup>st</sup> place in #IndustryHack / #CargoHack at #HackTheSea at  
MacGregor, 2016  
3<sup>rd</sup> place in #SpaceTyckiting @Futurice, 2016  
1<sup>st</sup> place in #IndustryHack at #HackTheFactory at Fastems, 2015  
2<sup>nd</sup> and final online round in Facebook Hacker Cup 2011 (placed  
182th)  
3 customer satisfaction awards (Nice-business Solutions Oy,  
2009, 2010, 2011)  
13 invention awards (Elektrobit, HERE Technologies)

## Work experience

Day Jobs	Side Hustles
<p><b><u>Alloy</u></b> <b>Staff Software Engineer</b> 2022-05-11 – Benalmádena, Spain Improving consumer goods supply chain analytics, planning and execution. Infrastructure and AI/LLMs. Implemented performance analytics in Elasticsearch. Decreased the BigQuery infrastructure query costs by 63%, interactive latencies by 13.7 s. Spearheaded the LLM chatbots features.</p> <p><b><u>HERE Switzerland GmbH</u></b> <b>Lead ML &amp; AI engineer</b> 2018-07-01 – 2022-04-30 Wollishofen, Zürich, Switzerland AI and machine learning. Deep reinforcement learning. Geolocation, maps.</p> <p><b><u>Cybercom Finland Oy</u></b> <b>Software architect, advisory consultant, speaker, organizer</b> 2012-12-03 – 2018-06-30 Tampere, Finland Machine learning, blockchain, Machinebook, industrial processes, suomi.fi, National Service Bus, web technologies, JavaEE, node.js, docker</p> <p><b><u>Nice-business Solutions Oy</u></b> <b>Technical architect</b> 2009-07-22 – 2012-11-30 Tampere, Finland Modern web technologies consulting, enterprise systems, ScrumMaster, assistant project manager, sales support</p>	<p><b><u>Sentido Emotions Technologies Ltd &amp; Sentido X-Tech Ltd</u></b> <b>Chief Technology Officer (CTO), partner</b> 2018-03-15 – 2019-01-11 (part-time) Finland Systems and architectures, artificial intelligence, deep learning, signal processing, embedded and mobile devices</p> <p><b><u>AI Morning</u></b> <b>Organizer</b> 2017-10-01 – 2018-10-05 (part-time) Tampere, Finland Being one of the main organizers of AI Morning (<a href="http://aimorning.fi">http://aimorning.fi</a>), with over 100 guests in each event</p> <p><b><u>Neter</u></b> <b>Founder</b> 2009-03-01 – (part-time) Finland Deep learning, modern web technologies consulting, TensorFlow, node.js, Ionic, Phaser, Cordova</p> <p><b><u>Kurikan Kaupunki</u></b> <b>Information Technology Course Teacher</b> 2001-06-01 – 2001-06-30 Kurikka, Finland Taught 10-14 year-old students Java programming and basics of computing.</p>

**Elektrobit Oyj****Design engineer / Research Engineer**

2007-08-27 – 2009-07-22

Tampere, Finland

DSP software development and testing, Next generation internet infrastructure for context-sensitive services in car environment, Semantic Web

**Finnpos Systems Oy****Project manager**

2005-04-11 – 2006-11-24

Tampere, Finland

Project responsibility, scheduling, architectural design, and programming for the Finnpos F2 payment terminal, Linux kernel driver for LG USB touchscreen, VoIP system using Speex-codec.

**Finnish Air Force****Air Force Weather Corporal**

2002-01-01 – 2003-01-01

Finland

Military training, leadership training, squad leadership, flight weather observation, METAR/SYNOP weather data.

**Kurikan Kaupunki****Information Technology Course Teacher**

2000-06-01 – 2000-06-30

Kurikka, Finland

Taught 10-14 year-old students Java programming and basics of computing.

**Kurikan Kaupunki****Information Technology Course Teacher**

1999-06-01 – 1999-06-30

Kurikka, Finland

Taught 10-14 year-old students Java programming and basics of computing.

**Kurikan Ryhti****Web Developer / 3D Video****Modeller / Print Advertisement Designer**

01-01-1999 – 01-01-2001 (part-time)

Kurikka, Finland

Developed a web site and video/print ads.

**Turvapalvelu M. Savela Ky****Accounting Software Engineer**

01-01-1998 – 01-01-1999 (part-time)

Kurikka, Finland

Accounting software customization. Database programming. Billing, accounting.

**Positions of trust**

HERE Technologies: Patenting Mentor, 2020 –

HERE Technologies: Machine Learning Competitions Organizer, 2020 –

HERE Technologies: Site Representative, Switzerland, 2020 –

Coursera / Princeton University, Bitcoin and Cryptocurrency Technologies: Mentor, 2017 – 2018

Cybercom Finland Oy, Machine Learning guild: Guildmaster, 2016 – 2018

Cybercom Finland Oy: Vice Representative of Employees in the Corporate Board, 2015 – 2018

Polyamoria – Tampere: Organizing monthly meet ups for ~160 members, 2014 – 2018

Condominium Malminkallio: Deputy Member of the Board, 2011

Roboteam: Vice Chairman, 2005

**Language skills**

Finnish: mother tongue

English: fluent

Swedish: good

Japanese: basics

German: basics