

# Ville Vartiovaara – Curriculum Vitae

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**Location** Tuusula, FINLAND  
**Year of birth** 1981, Tuusula, Finland  
**Family** Married, one child



2011->	<b>GE Healthcare Finland, Helsinki</b>	<b>Lead Electrical Engineer</b>
2009-2011	Vivago Oy, Helsinki	Hardware Design Engineer
2006-2009	Philips Healthcare, Vantaa	RF Design engineer
2005-2006	Philips Healthcare, Vantaa	Diploma thesis worker
2004	Philips Healthcare, Vantaa	RF Design engineer trainee
2000-2001	Nikkarin lukio, Kerava	Pitkän matematiikan opettajan sijaisuuksia
05/2001	Nikkarin koulu, Kerava	Yläasteen fysiikan ja kemian opettajan sijaisuus
07/1997	Systemiratkaisu Oy, Vantaa	Java programming and system installation



2000-2006	<b>Master of Science (M.Sc.), Electrical Eng.</b> Dept. of Electrical and Communications Engineering <ul style="list-style-type: none"><li>➤ <i>Major:</i> Electronics and Measurement Technology</li><li>➤ <i>Minor:</i> Microelectronics design</li></ul>	<b>Aalto University</b> <i>(Helsinki University of Technology)</i> Espoo, FINLAND
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1997-2000	Senior high	Nikkarin lukio, Kerava
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- **Electronics R&D**
  - Low-power embedded systems design: electronics, hardware and embedded software
  - PCB design: high-density multilayer, flex-rigid, RF, simultaneous 3D design, heat/power mgmt.
  - Simulation: APlac, spice, Microwave Office (a bit), Matlab, Labview
  - EMC, medical device safety matters, RF interference (MRI Receiver coils, patent pending)
  - Numerous designs (hardware and software), especially with TI MSP430
  - Altium Designer (Protel/DXP), Cadence Allegro, PADS, Zuken Cadstar, Cadsoft Eagle
- **Sensors**, low power and low-noise signal acquisition
- **Digital signal processing**, fast A/D conversion, very low noise systems, digital buses
- **Electromechanics** and electromechanical component design
  - PTC Creo Elements/Pro (Pro/Engineer) including Mechanica, AutoCAD where needed
  - Design for injection molding and vacuum forming
  - Enclosures, cabling, 3D ECAD/MCAD integration, assembly, research tools and test equipment
- **RF Design**, especially in magnetic resonance imaging (MRI) and short-range radios, 3D component design
- **Hands-on prototyping** of electronics and electromechanics
- **Test equipment design**, from electronics and mechanics to test sequences and database backends
  - Labview/TestStand/embedded C, C++/Assembler, MySQL/Apache/PHP /SQL/XML(also in R&D)
- **Patent:** 8,013,609 - Detuning circuit and detuning method for an MRI system



native



fluent



good (written) / fair(spoken)



fair



## MISCELLANEOUS

- **Hobbies**
  - Embedded electronics, digital distributed systems, designing and building stuff
  - Photography, car maintenance/repair, playing piano
  - Cycling, walking, jogging, cross-country skiing
- **Activities/societies**
  - Polyteknikkojen Radiokerho PRK, [prk.tky.fi](http://prk.tky.fi)
- **Driving license: B**
- **Military service**
  - Rank: Sergeant, Riihimäen Viestirykmentti, 2001-01-08 – 2002-01-14
  - Tasks: Technical design and management of a military telecom network