CURRICULUM VITAE

13.5.2025

EDUCATION

2004 - 2008	Engineer, Electronics, JAMK University of Applied Sciences
2003 – 2004	Non-commissioned officer of electronics, Army School of Communication and Electrical Engineering, Riihimäki
2000 – 2003	Basic electrician degree, AMISTO Porvoo – Loviisa unit, Loviisa
1998 – 2000	High school, Porlammi High school, Lapinjärvi (dropped out)
1989 – 1998	Primary and secondary school, Porlammi, Lapinjärvi

WORK EXPERIENCE

2/2019 - Senior R&D engineer, OPhi Technologies Oy, Lahti

- Electrical and automation design, PLC programming, HMI programming
 - o Ship-automation
 - o Electric ferry DC-charger, 4MW
 - o Frequency converters
 - o Biogas treatment container (CHP) control automation
 - o Small scale (30kW) hydroturbine power generation and gate control automation
 - o Battery management
 - o Manufacturing automation
- Commissioning
- Service

10/2012 – 11/2018 **Design Engineer**, Nocart Oy, Lahti

- Design and product development of a power generation control system
 - Frequency controller (small wind turbines, wood gas, hydro, biogas, steam, diesel)
 - o DC (solar, batteries)
 - Management of electricity purchase and sale, energy balance and battery management
 - o Microgrids
 - o MPPT-controller
- Electrical and automation design, PLC programming
 - o Factory automation
 - o Manufacturing automation, packing line
 - o Flying shear
 - o Ship propulsion control lever software design
 - Ship power plant control system retrofit update

- Commissioning (electrical testing, functional testing, troubleshooting)
- Technical support
- User interface design
- Technical sales
- Project management
- Component sourcing
- Freight + customs

3-9/2012

Design Engineer, Nocart Oy, Lahti (preparation for working life)

- Automation PLC programming
- PLC and frquency converter programming, user interface design
- Electrical, assembly, layout, cabinet and automation design
- Commissioning (wiring work, testing, functional testing)

4/2009 - 12/2011

Project-/electrical engineer, Cypress Wind Turbines Oy, Helsinki

- Product development
- Electrical, assembly and layout design of control systems for small wind turbines
- Component sourcing
- Assembly, testing and electrical installation of control cabinets
- Electrical installation work on buildings
- Mast work / high altitude work
- Equipment maintenance, documentation, and technical support
- LabView programming, measurement implementation, and analysis of measurement systems
- PLC and frequency converter software development
- LAN upkeep and technical support

6-12/2008

Project assistant, Jyväskylä University of Applied Sciences Ltd, Jyväskylä

- Robot cell programming for the Technology 2008 trade fair (Mitsubishi RV-2AJ robot, DVT Intellect machine vision, and Beijer E-1032 Operator panel)
- Exhibitor at the Technology 2008 trade fair
- Planning and supervising the laboratory exercises of the Basics of Measurement Technology course
- Reflow oven temperature controller design

5-8/2007

Electrician, Borealis Polymers Oy, Porvoo

- Industry electrician's tasks (installation, removal and connection work, commissioning inspection)

5-8/2006

Automation trainee, Borealis Polymers Oy, Porvoo

- MetsoDNA automation system image updates
- Development of a backup system
- Creating an Aspentech Trends and Management Page
- Development of MS Access database and modification of two databases

5-8/2005

Automation trainee, Borealis Polymers Oy, Porvoo

2-6/2004

Mechanic, Upinniemi garrison repair shop and minelayer ship Pohjanmaa, Upinniemi (training during military service)

9-10/2002	Mechanic , LPO – Loviisa telephone, Loviisa (the-job learning)
6-8/2002	Mechanic, Borealis Polymers Oy, Porvoo
6-8/2001	Mechanic, Borealis Polymers Oy, Porvoo
6-8/2000	Mechanic, Borealis Polymers Oy, Porvoo
7/1998	Mechanic, Borealis Polymers Oy, Porvoo
6-7/1997	Helper, Sihvola farm, Porlammi

COURSES / OTHER TRAINING

9/2023	First aid EA-1 (exp. 14.9.2026)
6/2017	Occupational safety card (exp. 8/2028)
6/2017	Electrical safety training SFS 6002 (exp. 8/2028)
8/2022	Drone A1/A3 open sub category (exp. 9.8.2027)
10/2020	Waste sorting training by PHJ Ltd
10/2018	Mental health first aid 1
5/2016	Voluntary rescue search and communication courses
1999 – 2008	FICORA modules K, T1, and T2 for amateur radio examination (general HAREC qualification)

MULTILINGUAL

Finnish	Native
English	Good

LANGUAGE TRAINING

2006	Study tour, Singapore, 2 kk
2003	Internship, Austria, Graz, 1 kk
1999	Language journey, Great Britain, Brighton, 1 kk

BUSINESS TRIPS ABROAD

Over the years, I have taken business trips to Nepal, Kenya, Estonia, Russia, Denmark, the United Kingdom, and Germany.

WORK TRAVELING

In the busiest years, domestic and international travel days have accumulated to approximately 90-140/year.

PROFESSIONAL TOOLS

ABB Automation Builder (Codesys v2) – Good knowledge Beckhoff TwinCAT – Basic knowledge CADS Planner 18 – Basic knowledge Siemen TIA 16/17/19 - Basic knowledge Wago e!cockpit – Basic knowledge

INDUSTRIAL EQUIPMENT

Energy metering: Accuency AcuDC 243, Schneider Electric iEM

3255, Socomec Diris A10, A20, A40

Programmable Logic Controllers: ABB AC500 -sarjan logiikat,

Beckhoff CX9020, Wago PF200, Siemens 1510/1512

HMI's: ABB CP600-series, Phoenix contact TPM 3105, Siemens

Unified and comfort panels

Frequency converters: ABB: ACS800, ACS880, ACSM1, Danfoss

(Visedo): PowerMaster, VSG, Siemens: G120

Batteries: Toshiba SCiB, Léchlance

Fieldbuses: Modbus RTU, Modbus TCP/IP, CAN, CANopen, J1939,

Profinet IO, EtherCAT

HOBBIES

Movies/home theater/hi-fi, violin playing, violin building, home network setup, electronics repair/building/modification, photography, video editing, blogging, LEGO collecting and restoring.

TRUST

3/2024 - Present	Member of the board of the Päijät-Häme Signals guild ry (Päijät-Hämeen viestikilta ry)
2/2021 - Present	Member of the board of the Pirate Party Päijät-Häme District Association ry (Piraattipuolueen Hämeen piiriyhdistys ry)
6/2020 – Present	Chariman of the Asunto Oy Kilpiäistenportti
10/2017 – 2021	Palkkatyön puolesta ry's (For pard work association ry) operations inspector
5/2010 – 8/2014, 6/2016 – 11/2019	Member of the boatd of the Piraattipuolue r.p (Pirate Party r.p.)
6/2016 - 11/2018	Nocart Oy's health and safety representative

4/2016 - 5/2020	Member of the board of the Asunto Oy Kilpiäistenportti
5/2008 - 5/2010, 8/2014 - 6/2016	Deputy board member of the Piraattipuolue r.p (Pirate Party r.p.)
4/2014 – Present	Deputy board member of the 1 Degree Consulting Oy
2013 – 2016	Deputy member of the Lahti Central Election Commission
2012	Chairman of the Helsinki District Electoral Commission 49A during Presidential elections 2012, 1st and 2nd round
6/2011 – 12/2011	Cypress Wind Turbines Oy 's shop steward and occupational health and safety representative
2011	Member of the Helsinki District Electoral Committee 33F during Parliamentary elections 2011
4/2009 – 4/2012	Piraattipuolue r.p 's (Pirate Party r.p.) support product trade manager
5/2008 - 12/2023	Treasurer of the Piraattipuolue r.p (Pirate Party r.p.)
10/2007 – 12/2008	Chairman of the residents' committee of Lehtorannantie 6 of Jyväskylän vuokra-asunnot Oy (Jyväskylä rental apartments Oy)
9/2006 – 12/2008	Student representative of the Quality Council of Jyväskylä University of Applied Sciences
1/2006 – 12/2006	Member of the Cooperation Council of the Residents' Committees of the Central Finland Student Housing Foundation (Ainolankaari 2)
9/2005 - 5/2006	Student coordinator of the FLEX06 project
9/2004 - 5/2007	Contact person of the Jyväskylä Association of Engineering Students
3/2003 – 3/2004	Member of the Board of the Porvoon radioharrastajat ry (Porvoo radio enthusiast association ry)