

Pasi Vähämartti

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CURRICULUM VITAE

10.8.2022

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 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
 - o Frequency controller (small wind turbines, wood gas, hydro, biogas, steam, diesel)
 - o DC (solar, batteries)
 - o 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
 - o 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 frequency 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

8/2022 Drone A1/A3 open sub category (exp. 9.8.2027)
10/2020 Waste sorting training by PHJ Ltd
8/2019 First aid EA-1 (exp. 8/2022)
8/2019 Hot work (exp. 7/2024)
10/2018 Mental health first aid 1
6/2017 Electrical safety training SFS 6002 (exp. 6/2022)
6/2017 Occupational safety card (exp. 6/2022)
5/2016 Voluntary rescue search and communication courses
2004 – 2011 Meeting technique and organizational activities (YH1), performance skills and job application (YH2), rules of the game in working life and negotiation skills (YH3), and contact person training (YH4) courses. I have also completed the YTN's steward training 1 (LM1), a shop steward training 2 (LM2), a shop steward training 3 (LM3), the economy, and the job (YRI1), as well as cash flow monitoring (YRI2) 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

2022	Denmark, Søby (Ærø), 2 weeks (2 trips) Great Britain, Wallingford, 1 week (1 trip)
2021	Great Britain, Wallingford, 1 week (1 trip)
2019	Estonia, Saaremaa, 1 week (1 trip) Denmark, Søby (Ærø), 12 weeks (10 trips) Denmark, Hvide Sande, 1 week (1 trip) Denmark, Thybøron, 1 week (1 trip)
2018	Russia, Svetogorsk, 1 day (1 trip) Estonia, Saaremaa, 4 weeks (4 trips)
2017	Nepal, Kathmandu, 1 week (1 trip) Germany, München, 1 week (1 trip)
2016	Kenya, Nyeri, 1 month (2 trips)
2015	Kenya, Nyeri, 3 months (4 trips)
2014	Nepal, Kathmandu, 5 weeks (2 trips)
2012	Germany, Hamburg, 2 weeks (1 trip)

WORK TRAVELING

At home and abroad travel days total about 90-140 / year

PROFESSIONAL TOOLS

ABB Automation Builder (Codesys v2) – Good knowledge
ABB Ekip T&P – Basics
ABB Panel Builder 600 – Good knowledge
Beckhoff TwinCAT – Basic knowledge
CADS Planner 18 – Basic knowledge
Labview 2011/2012 – Basic knowledge
Phoenix Contact Visu+ – Basic knowledge
Schneider Electric SEM Terminal – Basics

INDUSTRIAL EQUIPMENT

Energy metering: Accuenergy AcuDC 243, Schneider Electric iEM 3255, Socomec Diris A10, A20, A40
Programmable Logic Controllers: ABB AC500 -series, Beckhoff CX9020
HMI's: ABB CP600-series, Phoenix contact TPM 3105
Frequency converters: ABB ACS800, ACS880, ACSM1 ja Visedo PowerMaster, VSG
Batteries: Toshiba SCiB

Fieldbuses: Modbus RTU, Modbus TCP/IP, CAN, CANopen, J1939,
Profinet IO
Firewalls/routers: Hirschmann Eagle 20
Motion and control: Schneider Electric MDrive 23
Propulsion control: Lilaas L01

HOBBIES

Walking with dogs, movies/home theater / HiFi, geocaching, voluntary work with children, playing violin, local area network machinery, voluntary rescue service, amateur radio, photography, blogging.

TRUST

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| 2/2021 – Present | Member of the board of the Pirate Party Päijät-Häme District Association ry (Piraattipuolueen Hämeen piiriyhdistys ry) |
| 6/2020 – Present | Chairman of the Asunto Oy Kilpiäistenportti |
| 10/2017 – Present | Palkkatyön puolesta ry's (For part work association ry) operations inspector |
| 5/2010 – 8/2014,
6/2016 – 11/2019 | Member of the board 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 – Present | 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)