

BRANCH OF INDUSTRY

Electrical and automation design, PC-controls, PLC programming, electrical and automation installations:

Siemens: S5, S7, Coros LSB, OP's, MP's, WinCC, WinCC flexible

Control Software: Gred

Wonderware: InTouch

ABB: Advant AC70

Mitsubishi: Melsec

Allen & Bradley: PLC-5, SLC100, SLC150, SLC500

Omron: SCS, CV-2000, CV-1000, CQM, C200

Schneider: TSX, Micro, Momentum, Genesis

Metso: Damatic

Honeywell: Alcont

Company and Personal Rating SETI Oy: Electrical competence 1

Projects:

Vacon Oyj Vaasa. Lightning optimization for production lines. PLC's located in control cabinets: Siemens LOGO.

Vacon Oyj China. Crane application for NXP drives. Synchronized drives, power optimization function, RMS protection, mechanical brake control, load calculation ect. Made by NC 61131-3 programming tool.

Co-operation with Algol Technics Oy, Ruukki Oyj Raahe, bundler system to cold rolling mill. Automation turnkey delivery. Siemens S7, MP277, MP277 Mobile ect.

Co-operation with Algol Technics Oy, Ovako Steel Oy Koverhar, Changes to overhead crane software. Siemens S7

Co-operation with Sesca Oy, Vacon Oyj Vaasa, liquid system to testing furnaces for liquid cooled frequency converters, Siemens S7

Co-operation with Sesca Oy, Vacon Oyj Vaasa, air system to testing furnaces for liquid cooled frequency converters, Siemens S7

Co-operation with Citec Oy, Elkem Solar Norway, electrical planning for movable platforms

Co-operation with Algol Technics Oy, Ruukki Oyj Raahe, plate manipulator to cold rolling mill. Automation turn key delivery. Siemens S7, MP277, MP277 Mobile ect.

Co-operation with Ilves Metalli Oy, Juustokaira Oy Kuusamo, cheese cutting line. Siemens S7, MP277

Co-operation with Northern Automation Oy, Päijät-Häme Central Hospital Lahti, rebuilding of black start units. Siemens S7, WinCC, MP277

Co-operation with HL-Engineering AG, Red Dog Mine Alaska, AVR change from Brush to ABB UNITROL 1000, Electrical design and parameters for AVR

Co-operation with HL-Engineering AG, Rakvere Lihakombinaat Rakvere Estonia, PC-sofwares for production lines, Intouch, Siemens S7

Vacon Vaasa, application developing with NC61131-3 programming software

Co-operation with Avecon Oy, Componenta Virsbo Sweden. Software changes to tempering furnace, Siemens S7, Intouch, PID-controllers in PLC

Co-operation with Avecon Oy, Valio Lapinlahti cheese packing line, Siemens S7, Siemens WinCC, SEW Eurodrive servo drives and frequency converters

Dublin waste water plant, Ireland. Problem solving from CAN-bus and Allen & Bradley PLC. Comissioning in Dublin Ireland, Vacon frequency converters

On duty for Citec Oy, Power plant Baden in Germany and Power plant Trollhättan in Sweden. Electrical desig.

On duty for Citec Oy, KWH Pipe Vaasa. Mobile Extruder. Electrical and automation desig and PLC programming. Siemens LOGO. Vacon frequency converters.

On duty for New Project Oy, AWA Oy, Vantaa
Loading and unloading stations in steelroll stock for steel rolls in steel factory of Avesta Polarit Oy Tornio, 2 x Siemens S7 + 2 x OP27
- Programming and comissioning in Tornio

On duty for New Project Oy, MetsäBotnia Kaskinen, SO₂-discharging sequences, Honeywell Alcont
- electrical- and automation design, programming and commissioning in Kaskinen

On duty for New Project Oy, Ekokem Oy Ab, Riihimäki
Waste plant / programming (Siemens S5)
- automation design, programming and commissioning in Riihimäki

On duty for New Project Oy, Ekokem Oy Ab, Riihimäki
Waste plant / burning line 2, hose filter
(Damatic XDi, Siemens S7)
- automation design in Riihimäki

On duty for New Project Oy, Ekokem Oy Ab, Riihimäki
Waste plant / burning line 1, electric filter
(Damatic XDi, Siemens S7)
- automation design in Riihimäki

On duty for New Project Oy, Ekokem Oy Ab, Riihimäki
Waste plant / enlargements, basic design
(Damatic XD, Siemens S7)
- automation design in Riihimäki

On duty for New Project Oy, Algol Oy Ab, Helsinki/
Sulzer Pumps Finland Oy, Karhula
Different software and electrical maintenance works
- automation design, Siemens S7, programming and commissioning in Karhula

On duty for New Project Oy, Planar Systems Oy, Espoo
Mt. Fuji, flat screens, ALE-reactors, machine controls (Omron)
- electrical-, automation- and hardware -design

On duty for Sarlin Automation Oy, Mustola Timber Oy, Lappeenranta
Gap of beams optimization system (2 pcs.)
- Telemecanique TSX, Red Lion -control panel, programming and commissioning in Lappeenranta

On duty for Sarlin Automation Oy, Sieväsisüste Oy, Lahti
Height adjustment of grinding machine conversion to line controlled
- Modicon Micro, Telemecanique TSX
- programming and commissioning in Lahti

On duty for Algol Oy, Ahlström Pump Oy, Karhula (Schulzer)
Changes to conveyor- and stock lift softwares
- Siemens S7
- programming and commissioning in Karhula

On duty for Algol Oy, Nokian Renkaat Oy, Nokia
Changes to conveyor- and stock lift softwares
- Siemens S7
- programming and commissioning in Nokia

On duty for Algol Oy, Hobby Hall Oy, Vantaa
Changes to conveyor softwares
- Siemens S5, Siemens S7, Interbus-S
- programming and commissioning in Vantaa

On duty for Algol Oy, Rautaruukki Oy, Raahe
Changes to overhead crane softwares, automation of 2 old crane
- Siemens S5, Siemens S7, ABB frequency converters, swing blocking
made in PLC
- programming and commissioning in Raahe

On duty for Algol Oy, Suomen Posti Oy, Pasila, Tampere ja Seinäjoki
Changes to conveyor softwares
- OMRON CV-1000, C200, SCS, Gred, NT-control panels, Omron
frequency converters
- programming and commissioning in Helsinki, Tampere and Seinäjoki

On duty for Algol Oy, Magnum Promed, Tallin, Estonia
Conveyor system
- OMRON C200HS, Omron frequency converters
- programming and commissioning in Tallin Estonia

On duty for Avecon Oy, Jot Components Ab, Virsbo, Sweden
Tempering furnace delivered by Sarlin Furnaces Oy
- Simatic S7-CPU315, Intouch, SEW frequency converters, PID-
controllers in PLC
- recipe handling, report handling (Excel / Visual Basic)
- programming and commissioning in Virsbo Sweden

On duty for Avecon Oy, Pharmacia & UpJohn, Belgium
Destillers delivered by Steris Finn-Aquan (2 pcs.),
- Simatic S7-CPU414 2DP, CP 443-1 for WinCC, PID-controllers in
PLC, commissioning in Kerava

On duty for Avecon Oy, Rautaruukki Oy, Raahe
Overhead cranes (2pcs.) delivered by Oy Algol Ab
- Simatic S5-115U and OP27 (4 pcs.), ABB frequency converters
- programming and commissioning in Raahe

On duty for Avecon Oy, MASA-YARDS, Helsinki
Sealing oil system for azimuthing propellers delivered by ABB-Azipod Oy
- ABB Advant AC70 (6 pcs.)
- programming and commissioning in Helsinki

On duty for Control Software Oy, Ovako Steel Ab, Hofors, Sweden
Hardening furnace delivered by Sarlin Furnaces Oy

- Mitsubishi Melsec A2, Intouch, Eurotherm heat controllers, PID-controllers in PLC

- programming and commissioning in Hofors Sweden

On duty for Control Software Oy, Avesta Sheffield Ab, Avesta, Sweden
Hardening furnace delivered by Sarlin Furnaces Oy

- Mitsubishi Melsec A2, Intouch, Eurotherm heat controllers, PID-controllers in PLC

- programming and commissioning in Avesta Sweden

On duty for Control Software Oy, Hydro Aluminium, Karmoy, Norway
Preheating furnace delivered by Sarlin Furnaces Oy

- Allen & Bradley PLC-5, Intouch, IGA gas controllers

- programming and commissioning in Karmoy Norway

On duty for Control Software Oy, Volvo Floby Ab, Floby, Sweden
Tempering furnace delivered by Sarnin Furnaces Oy

- Simatic 100U, Intouch, reports (Excel / Visual Basic), SEW frequency converters, PID-controllers in PLC

- programming and commissioning in Floby Sweden

On duty for Control Software Oy, Rautaruukki Oy, Raahe
Overhead crane delivered by Algol Oy

- Simatic S5-115U, Coros OP25, ABB frequency converters

- programming and commissioning in Raahe

On duty for Control Software Oy, Lujabetoni Oy, Siilinjärvi

Railway sleeper production line to Siilinjärvi delivered by Algol Oy

- Simatic S5-115U, OP25

- programming and commissioning in Siilinjärvi

On duty for Control Software Oy, Jot Components Ab, Främmestad, Sweden

Hardening furnace delivered by Sarlin Furnaces Oy

- recipe handling, report handling, software for portal robot, data transfer following the batch on the process

- Mitsubishi Melsec A2, Intouch, Excel / Visual Basic, SEW frequency converters

- programming and commissioning in Främmestad Sweden

On duty for Control Software Oy, Helvar Oy, Helsinki
Servo-driven loading machine for palettes, thorn machine, ferrite machine, necklace machine 1, necklace machine 2, necklace machine 3, manipulator for circuit boards, measuring machine for chokers with tailor made serial interface, procession memory system for palettes

- Omron CV-2000, CV-1000, CQM1, C200HS, Omron servo drives
- touch screens NT600S ja NT600M
- programming and commissioning in Helsinki

On duty for Control Software Oy, Nokian Renkaat Oy, Nokia
Scales system for rubber extrusion line with MS Access human interface

- MS Access data base, MS Access interface, Simatic S5-100U
- programming and commissioning in Nokia

On duty for Control Software Oy, Valmet Automotive, Uusikaupunki
Infra red dryer for paint line of Opel Calibra and Saab Cabriolet

- (Simatic 115U / Intouch / L2 fieldbus / H1 fieldbus / ET-200 fieldbus), PID-controllers in PLC

- programming and commissioning in Uusikaupunki

On duty for Control Software Oy, Wärtsilä Diesel Oy & Vaasa Engineering Oy, Vaasa
Diesel power plant Cerestar in Krefeld, Germany

- Programming (Simatic 155U, Simatic 115U, TELEPERM M) and commissioning in Krefeld Germany, PID-controllers in PLC

On duty for Control Software Oy, Amsco Finn-Aqua, Vantaa
Steril water prehandling plant in Rouen, France

- Simatic S5-115U, Coros OP35 + Intouch, PID-controllers in PLC
- programming and commissioning in Rouen France

On duty for Avecon Oy, Wärtsilä Diesel & ABB, Vaasa
Gas power plants Eskisehir and Cayirova(Istanbul) Turkey

- commissioning (Simatic S5-135U, COROS-LSB) in Eskisehir and Cayirova Turkey, PID-controllers in PLC
- Programming

On duty for Avecon Oy, Wärtsilä Diesel, Vaasa
LNG-Low pressure system

- ABB Procontic CS31, PID-controllers in PLC
- Electrical design, programming and commissioning in Vaasa

On duty for Avecon Oy, ABB, Vaasa
Testing machine for disconnectors

- ABB Procontic CS31, GRED, PID-controllers in PLC
- electrical design, programming and commissioning in Vaasa

On duty for Avecon Oy, ABB, Vaasa
Testing machine for MV-breakers
- ABB Procontic CS31
- electrical design, programming and commissioning in Vaasa

On duty for Avecon Oy, T-Drill Ltd, Laihia
T-junction drill (T-850 Japan)
- electrical design and commissioning in Laihia

On duty for Avecon Oy, ABB, Vaasa
1260 kVA:n diesel black start plant
- electrical design, automation design
- programming and commissioning (ABB-Procontic T-200, GRED-SCADA) in Tervola

On duty for Avecon Oy, Vaasa Town, Vaasa
Pump station for waste water JVP10, prethickening plant Kalliolampi,
Lye feeding system for Kyrö river raw water pump station
- electrical design, programming and commissioning in Vaasa (ABB-Master, Allen & Bradley SLC-500)

On duty for Avecon Oy, Wisaforest Oy Ab, Pietarsaari
Ozone generators 3 (from France) and 4 (from Germany)
- electrical design and installation supervision in Pietarsaari

On duty for Avecon Oy, ABB Motors, Vaasa
Testing cabinet for squirrel cage induction motors
- electrical design, programming and commissioning in Vaasa (ABB-Procontic T-200, RS232 –communication processor KP62)

On duty for Avecon Oy, Ekorosk Oy, Pietarsaari
Automation for waste handling plant
- automation design (ABB-Procontic CS31)

On duty for Avecon Oy, FLS-Miljö, Denmark
Desulphuration plant, IVO -Naantali
- electrical and instrumentation installation supervision in Naantali

On duty for Avecon Oy, Wärtsilä Diesel, Vaasa
Natural gas feeding system for LNG-engine testing
- electrical design, instrumentation design, programming and commissioning in Vaasa (Ex-area), ABB-Procontic PCZB

On duty for Avecon Oy, Esko Salo Ky, Kauhajoki
Valio Pitäjämäki
- Conveyor system for Valio, programming and commissioning in Kauhajoki (Siemens Simatic S5-115U)

On duty for Avecon Oy, Esko Salo Ky, Kauhajoki
Veitsiluoto Oy, Kemi
Conveyor system of XEROX –paper boxes
- programming and commissioning in Kemi (Siemens Simatic S5-100U)

On duty for Avecon Oy, T-Drill Ltd, Laihia
T-junction drill (TCC-45)
- electrical design, installation supervision and commissioning in Laihia

On duty for Avecon Oy, Different tube machining machines:
GRUND2 Denmark, ETANCO France, STORCK Spain
- electrical design, instrumentation design, programming and
commissioning in Laihia (Mitsubishi Melsec, Allen & Bradley SLC-500)

On duty for Avecon Oy, Wisaforest Oy Ab, Pietarsaari
Lime sludge furnace, lime sludge conveyors
- electrical design, instrumentation design, programming and
commissioning in Pietarsaari (Siemens Simatic S5-115U)

On duty for Avecon Oy, Kemi Oy, Kemi
Bale line
- programming and commissioning in Kemi (Siemens Simatic S5-110S)

On duty for Avecon Oy, Wisaforest Oy Ab, Pietarsaari
Break control system for drying machine
- electrical design, instrumentation design, programming and
commissioning in Pietarsaari (Siemens Simatic S5-115U)

On duty for Avecon Oy, Wärtsilä Diesel, Vaasa
Emission Control –development project
- electrical design, instrumentation design, programming and
commissioning in Vaasa (ABB-Procontic K200)

On duty for Avecon Oy, T-Drill Ltd, Laihia
Collaring machine for steel tubes (T-400 Moscow)
- electrical design, instrumentation design, programming and
commissioning in Moscow Soviet Union (Allen & Bradley SLC-150)