


CV

Name	Janne Hanka	
Year of birth	1984	
Education	Master of Science (Technology), Structural Engineering and Building Technology Aalto University (2012)	
	BEng. (Building Engineering) Helsinki Polytechnic Stadia (2008)	
Years of work experience	18	
Job title	Chief Specialist	
Key qualifications	Prestressed concrete structures: watertight tanks, transfer structures, parking houses, yard decks Strengthening design of existing structures External inspector of structural designs	
Language skills	Finnish, English, Swedish	

Work Experience

2020–	RakenneStudio Oy / Structural Studio Ltd	Chief Specialist, Partner
2019–2020	Sweco Structures Ltd, Bridges	Department Manager
2015–2018	Sweco Structures Ltd, Prestressed concrete structures	Project Manager
2012–2015	Sweco Industry, Plant Engineering	Structural Engineer
2011–	Aalto University, Department of Structural Engineering	Lecturer, reinforced and post-tensioned concrete structures
2007–2012	Citec Engineering Oy Ab	Concrete Designer
2006	Optiplan Oy	Trainee / Junior Engineer
2004-2006	NCC	Construction worker

Qualifications

2020	FISE certification grade V+ (Difficult) External inspector of structural designs (until 04.06.2027)
2018	FISE certification grade PV (Exceptionally difficult) Designer of concrete structures (until 28.11.2025)

Courses

2019	Sweco Academy - Manager training programme
2019	TEK Nuorten osaajien Forum training 10.12.2018-24.04.2019
2016	Imperial College London: Post-tensioning Design and Construction
2016, 2018, 2019	BY/RIL Prestressed Concrete course, Lecturer
2016–2018	BY/RIL Site Manager for cast-in-situ concrete structures course, Lecturer (Composite structures)
2016	Sweco Academy - Project Manager training

Memberships

Tekniikan Akateemiset TEK (Academic Engineers and Architects in Finland)
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Publications

BY 69 Unbonded tendons in concrete structures (2016), Author of the calculation example
Master's Thesis: Validation of a standardized design method of loadbearing Siporex-slabs of autoclaved aerated concrete (2011)

Awards

Concrete Structure of 2018, Amos Rex
RIL Award 2018, Amos Rex Art Museum
RIL Award, Fund of Fabian Ahvenainen and Oskari Vilamo:
Master's Thesis: Validation of a standardized design method of loadbearing Siporex-slabs of autoclaved aerated concrete (2011)

Notable projects

2019–2020	Lippulaiva Bus terminal (Espoo) Design of post-tensioned transfer slabs	Responsible Engineer Grade: Difficult
2016–2018	Ainoa3 (Espoo) Post-tensioned horizontal structures and transfer slabs (41000 m ²)	Project Manager Grade: Exceptionally difficult
2016–2017	Amos Anderson Art Museum (Helsinki) Concrete domes (diameter 36 m and 25 m) supported with post-tensioned beams.	Structural Engineer, Project Manager Grade: Exceptionally difficult
2015–2016	Metsä Fibre (Äänekoski) Post-tensioned wastewater tanks (D=100 m, h=12 m and D=86 m, h=6 m)	Structural Engineer, Project Manager Grade: Exceptionally difficult
2013–2015	Neste Jacobs Oy TL3 (Porvoo) Design of concrete structures for the Turnaround 2015 stoppage. Strengthening design of tabletop structure with prestressed tendons. Analysis and strengthening design of old pipe bridges.	Structural Engineer, Project Manager Grade: Exceptionally difficult

Projects

2026	Folkhälsanhuset Brunakärr (Helsinki) Modification and rehabilitation design of an existing post-tensioned slab structure	Structural Engineer Grade: Difficult+
2025-2026	Logohub parkin (Turku) Overall structural design of post-tensioned parking hall. Includes 2x18m span pedestrian steel bridge. Parking hall braced using rigid moment frame. 5 storeys, floorprint 14472 m ²	Responsible head Structural Engineer Grade: Difficult+
2025	Lautasaaren aurinko parking hall (Helsinki) Design of post-tensioned deck slab. (592 m ²)	Structural Engineer Grade: Difficult+
2025	Sprinklausaltaan rakennesuunnittelu (Pudasjärvi) Design of cast-in-situ sprinkler pool (400m ³ , 144m ²).	Structural Engineer Grade: Difficult
2025-2026	Erä- ja luontokulttuurimuseo (Imatra) Conversion of old city hall into a cultural museum. Demolition, modification and strengthening of load-bearing structures (4 floors, 14,240 m ²)	Responsible head Structural Engineer Grade: Difficult
2025	Rykmentinportinkatu 3 (Tuusula) Structural design of warehouse frame, stability system and foundations (11,455 m ² , height 16 m)	Structural Engineer Grade: Difficult+
2025-	Data Center Project (Hamina) Reinforcement design for cast-in-place retaining wall (h=7–10 m, length 423 m) and foundations + cast-in-place structures of data center buildings (35,400 m ²)	Project Manager Grade: Difficult
2025	External Reviews of Balcony Glass and Railing Structural Plans (Multiple Locations) during 2025 - KOY Patalankulma, Maapadontie 11 (Helsinki) - Omakotitalo, Moisiantie 33 (Helsinki) - As Oy Vantaan Pyhtäänkorven Mestarit (Vantaa) - Omakotitalo, Kärppäkuja 8 (Vantaa) - As Oy Helsingin Pasaati (Helsinki) - As Oy Helsingin Alpha (Helsinki) - HASO Käskynhaltijantie 48 ja HEKA Mestarintie 18 (Helsinki) - As Oy Helsingin Oulunkylän Urho (Helsinki) - TA-Asumisoikeus Oy/Störörantie 9-11 (Helsinki) - As Oy Vantaan Magenta ja Fuksia, Neilikkapolku 12 (Vantaa) - As Oy Helsingin Aamuaurinko (Helsinki) - As Oy Melodia, Rytmi, Tahti ja Tempo, Vanhaistentie 1 (Helsinki) - As Oy Espoon Altto, Baritoni, Sopraano ja Tenori (Espoo) - As Oy Helsingin Taksvärkki (Helsinki) - As Oy Maamonlahdentie 5 (Helsinki) - As Oy Espoon Okra (Espoo) - As Oy Fanfaari ja Fantasia (Espoo) - As Oy Porvoon Dynamo (Porvoo) - Topaasikuja 10, Kivistön Colosseum (Vantaa) - VASO Puistonportti, Hovineidonkatu 4 (Turku) - Asunto Oy Lohjan Kotimännikkö (Lohja) - KERA kortteli 54043, Viilivati 7, (Espoo) - Kannelkoti, Vanhaistentie 15 (Helsinki)	3 rd party inspector of structural designs
2025	Nekala Rescue and Emergency Station (Tampere) Structural design of precast concrete frame, stability and foundations (2 floors, 4,450 m ²)	Structural Engineer Grade: Difficult
2025	Espoon Asunnot Gräsänportti 2 (Espoo) Design of post-tensioned deck slab. (1361 m ²)	Structural Engineer Grade: Difficult+

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2025	Pohjanmaan Betoni Oy (Lapua) Structural and element design for manure tank covered with hollow-core slabs (h=4 m, V=3,500 m ³ , A=786 m ²)	Structural Engineer Grade: Exceptionally difficult
2025	As Oy Laajasalon Minea ja Matilda (Helsinki) Design of post-tensioned deck slab. (743 m ²)	Structural Engineer Grade: Difficult+
2024	Heka Kalasatama Pilkkikuja 2 Design of post-tensioned deck slab. (875 m ²)	Structural Engineer Grade: Difficult+
2024-2026	Kutomotie 9 (Helsinki) Alteration project. Old office to be altered for residential use. Inspection of existing pt-slabs for new loads and holes.	Structural Engineer Grade: Difficult+
2024	Maustetehtaankatu 2 LPA (Helsinki) Design of 2-storey post-tensioned parking hall. (2632 m ²)	Structural Engineer Grade: Difficult+
2024	Mikalo (Mikkeli) Design of post-tensioned transfer slab and deck slab (550 m ²)	Structural Engineer Grade: Difficult+
2024	P-Atlas and P-Saukonlaituri (Helsinki) Inspection of damage to existing parking structures. Design of repair works.	Expert task
2024-2025	Parking hall Structural quality requirements document Writing of a requirement document regarding new parking hall structural designs for the Helsinki City.	Expert task
2024	Pohjanmaan Betoni Oy (Kokkola) Product development and design of precast cylindrical tank for agricultural use. (h=4 m V=3500m ³ ...1000m ³)	Structural Engineer Grade: Exceptionally difficult
2023-2024	Niinivaara new water tower (Joensuu) Design for post-tensioned concrete tank for a new water tower (h=11,2m D=21,6m)	Structural Engineer Grade: Exceptionally difficult
2024	Finnoo II western parking hall (Espoo) Calculation for bracing and stability for precast parking structure. 4 storeys, 9200 m ² .	Structural Engineer Grade: Difficult+
2024	Vaisala new warehouse (Vantaa) Extrenal inspection of new warehouse structural designs.	3 rd party inspector of structural designs
2024	Aluroll, training of balcony railings and glazing's. Training regarding design of balcony railings and glazing's.	Trainer
2024	External Reviews of Balcony Glass and Railing Structural Plans (Multiple Locations) in 2024 - Haso Myllymatkantie 11 (Helsinki) - HEKA Maapadontie 2 (Helsinki) - As Oy Espoon Vuoritontuntie 2-4 (Espoo) - As Oy Panorama (Espoo) - Finnoonkartanonkatu 17 (Espoo) - As Oy Helsingin Lilja (Helsinki) - As Oy Paatsamakuja 6 (Vantaa) - As Oy Helsingin Kotihelmi (Helsinki) - As Oy Espoon Kiisseli (Helsinki) - Konalankuja 2 ja 4 (Helsinki) - Pajalan Helmi, Wärtsilänkatu 4 (Järvenpää) - As Oy Helsingin Verkkoneula ja Laudus (Helsinki) - As Oy Tampereen Hymni ja Keskienskatu 20 (Tampere) - TVT Asunnot Hoviväenkatu 3 (Turku) - As Oy Helsingin Jupiter ja Saturnus, Laurinmäenkuja 3 - Asunto Oy Espoon Karakalliontie 10 ja Karakallionpaula - As Oy Havuaukio (Turku) - Vanha Helsingintie 20 (Helsinki, Malmi)	3 rd party inspector of structural designs

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2023	Pysäköintihalli kortteli 17114, Rullakkokuja 16 (Helsinki) Design of post-tensioned deck slab. (3051 m ²)	Structural Designer Grade: Difficult+
2023	As Oy Heidi ja As Oy Eloisa (Järvenpää) Review of balcony railings and glazing's. Inspection of old delaminated balcony glazing's.	3 rd party inspector
2023-	Pasila Tulistimentie (Helsinki) External inspector of 3 housing buildings structural frame: 16, 13 and 15 storeys.	3 rd party inspector of structural designs
2023	As Oy Helsingin Sinkkivälke (Helsinki) Design of post-tensioned deck slab. (734m ²)	Structural Designer Grade: Difficult+
2023	KOy Tonttulaakson pysäköinti (Espoo) Design of post-tensioned deck slab. (3451m ²)	Structural Designer Grade: Difficult+
2023	Geologian tutkimuslaitos (Espoo) Strengthening design of old concrete beam-frame	Structural Designer Grade: Difficult+
2023	Gunillatie 3 (Helsinki) Design of post-tensioned deck slab. (1227m ²)	Project Manager Grade: Difficult+
2023	As Oy Kruunuvuorenrannan Kajo (Helsinki) External inspector of designs and execution of a precast housing building (8 stories)	3 rd party inspector of structural designs
2023	Stora Enso Oulu, bioproduct mill (Oulu) External auditor and review of post-tensioned tanks design and execution	Contractors Engineer
2023	As Oy Helsingin Ultramariini (Helsinki) External inspector of precast housing building (6 storeys)	3 rd party inspector of structural designs
2021, 2023, 2025	Pontoon structure development work Structural design and development work for a floating concrete pontoon	Structural Designer
2023	External Reviews of Balcony Glass and Railing Structural Plans (Multiple Locations) in year 2024 - As Oy Hellikki (Helsinki) - As Oy Erika (Helsinki) - As Oy Särkiniemenpuisto (Helsinki) - As Oy Espoon Matroonan Lintu (Espoo) - KOy Ylioppilashuone Alina (Helsinki) - As Oy Tapiolan Feenix (Espoo) - As Oy Aura ja Vanamo (Espoo) - As Oy Monumentti (Helsinki)	3 rd party inspector of structural designs
	Rantakartanon parking hall (Lahti) Stability and bracing design for cast-in-situ parkin hall. (7 storeys, 12900 m ² .)	Structural Designer Grade: Difficult+
	Käskynhaltijantie parking (Espoo) Main structural engineering design for multistorey parking hall. Total floor area 7332 m ² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses.	Responsible head Structural Engineer Grade: Difficult+
	Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for deck slab (11 817 m ²)	Responsible head Structural Engineer Grade: Difficult+
	Datacenter (Espoo) Alteration design of a warehouse to datacenter use. Main structural engineer tasks. Footprint 4000 m ² .	Responsible head Structural Engineer Grade: Difficult

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2022	Warehouse and logistics, Lommila (Espoo) External inspector of structural designs for a warehouse made of precast concrete elements. Area 16 600m ² .	External Inspector Grade: Difficult+
2022	Henttaa Puistokatu 4, parking structure (Espoo) Design of post-tensioned deck slab (1454 m ²).	Project manager Grade: Difficult+
2022	As Oy Särkiniemenpuisto, parking structure (Helsinki) Design of post-tensioned deck slab and intermediate floor (1873 m ²)	Project manager Grade: Difficult+
2022	As Oy Särkiniemenpuisto (Helsinki) External inspector of a housing building and underground parking hall designs.	External Inspector Grade: Difficult+
2022	Berthan Portin pysäköinti 2 (Helsinki) Design of post-tensioned deck slab, transfer slab and intermediate floor (1934 m ²)	Structural Engineer Grade: Difficult+
2022	As Oy Aallonharja (Jyväskylä) Design of post-tensioned deck slab and intermediate floor (1900 m ²)	Project manager Grade: Difficult+
2022	As Oy Aura and Vanamo (Espoo) Design of post-tensioned deck slab. (2019 m ²)	Designer and Project manager Grade: Difficult+
2022	As Oy Meander, parking structure (Helsinki) Design of post-tensioned deck slab (2030 m ²)	Structural Engineer Grade: Difficult+
2022	Kettutie parking structure (Helsinki) Design of post-tensioned deck slab (1530 m ²)	Structural Engineer Grade: Difficult+
2021	As Oy Jätkäsaari Samoankuja (Helsinki) Design of post-tensioned transfer beams	Responsible Engineer Grade: Difficult
2021	Vantaan Rasti (Vantaa) Logistics center. Design of steel frame and foundations	Designer. Grade: Exceptionally difficult
2021-2022	KOy Sävelkortteli parking hall (Helsinki) Design of post-tensioned transfer beams and floors (3 509 m ²)	Responsible Engineer Grade: Difficult
2021	As Oy Helsingin Julius (Helsinki, Gyldenintie 2) External inspector of precast housing building and parking carage	External Inspector Grade: Difficult
2021-2022)	Metsä Fibre Kemi bioproduct mill (Kemi) External auditor and review of post-tensioned tanks design and execution	Contractors Engineer
2021	Karakallion Joutsenhanke (Espoo) Design of post-tensioned deck slab	Responsible Engineer Grade: Difficult
2021	As Oy Niittykummun riihitonttu (Espoo) Design of post-tensioned deck slab	Responsible Engineer Grade: Difficult
2021	KOy Helsingin Jokiniementie Parking (Helsinki) Design of post-tensioned floors	Responsible Engineer Grade: Difficult
2021	Delfiinikortteli, Parking hall (Helsinki, Vuosaari) Design of post-tensioned floors and deckslab.	Responsible Engineer Grade: Difficult
2021	KOy Vallila Park (Helsinki) External inspector of a underground parking hall designs	External Inspector Grade: Difficult
2021	As Oy Helsingin Bysantti (Helsinki, Harjannetie 30) External inspector of a precast parking hall designs.	External Inspector Grade: Difficult
2021	Uumajan bridge, repair project (Uumaja) Designer of foundations and concrete structures required to repair the bridge	Designer Grade: Difficult

2021	As Oy Charlotta ja Fanny (Porvoo) Design of the post-tensioned transfer beams between parking hall and housing building.	Designer Grade: Difficult
2020-2021	As Oy Monumentti and As Oy Siluetti (Helsinki) External inspector of precast housing structure (15 stories) and (14 stories) structural designs and site inspections of the reinforcement works.	External Inspector Grade: Difficult
2020-2022	Kilpilahti Power Plant – Repair project (Porvoo) External inspector of repair design for new power plant	External Inspector Grade: Difficult
2020	JAKO BETONI. Product development and design of post-tensioned precast cylindrical tank for agricultural use	Responsible Engineer Grade: Exceptionally difficult
2020-2021	Vantaan Rasti (Vantaa) Design of the steel trusses and stability for a warehouse	Steel Designer Grade: Exceptionally difficult
2020	GWS (Helsinki) Design of the stability for a parking hall.	Designer Grade: Difficult
2020-2021	KOy Feenix Parking (Espoo) - JJ-rakenteet Design of post-tensioned beams and slabs	Responsible Engineer Grade: Difficult
2020	Rakennusteollisuus RT ry Member of national commentary group RTT/SR 20/AK02 (Design of concrete)	Author of the comparison calculations for the Eurocode
2020	Betoniyhdistys By ry, Betonitietosivusto Content provider for Concrete Association of Finland – Post-tensioned structures	Content provider
2020	Myllyparkki (Turku) Inspection and report for horizontal post-tensioned structures (declaration of conformity)	External Inspector Grade: Difficult
2020	Salmisaari (Helsinki) Preliminary design of a concrete pontoon for a floating small residential building	Structural Engineer Grade: Difficult
2020	Kalatatama (Helsinki) Preliminary design of a concrete pontoon for a floating five storey residential building	Structural Engineer Grade: Exceptionally difficult
2020	Mahtiparkki 626 (Espoo) Internal inspection of a post-tensioned transfer structure	Inspector Grade: Difficult
2020	As Oy Töölön kesäkatu (Helsinki) External inspection of transfer beams (strengthening of existing structures)	External Inspector Grade: Difficult
2019	Postipuun lastensuojelupalvelut (Espoo) Post-tensioned transfer beams (spans 15 m and 14 m)	Responsible Engineer Grade: Difficult
2019	Stora Enso OCO (Oulu) Preliminary and construction phase design for post-tensioned concrete tanks (D=40 m, h=9 m and D=41 m, h=4 m)	Project Manager Grade: Exceptionally difficult
2019	E18 Bridges External inspector of structural designs	Inspector Grade: Difficult
2019	Kuhansalontie Bridge (Joensuu) External inspector of structural designs	Inspector Grade: Difficult
2019	LETKE Bridge S6 External inspector of structural designs	Inspector Grade: Difficult

2019	Eliel Saarisen tie 42 (Helsinki) Post-tensioned yard deck (996 m ²)	Responsible external inspector Grade: Difficult
2019–2020	Lippulaiva Bussiterminaalilohko (Espoo) Design of post-tensioned transfer slabs	Responsible Engineer Grade: Difficult
2019	As Oy Kreivi, Herttua ja Markiisi (Kauniainen) Post-tensioned beams and slabs (2090 m ²)	Responsible Engineer Grade: Difficult
2019	As Oy Portus (Helsinki) Post-tensioned beams and slabs (2070x2=4170 m ²)	Structural Engineer Grade: Difficult
2019	As Oy Harjus, Smoltti ja Klossi (Helsinki) Post-tensioned beams and slabs (800 m ²)	Project Manager Grade: Difficult
2019	Telakkaranta (Helsinki) Post-tensioned structures (2800x3=8400 m ²)	External Inspector Grade: Difficult
2019	Tesoma (Tampere) Post-tensioned beams and slabs (2298 m ²)	Project Manager Grade: Difficult
2018	Santos Park korjaus (Helsinki) Design of repair works for post-tensioned parking slab (200 m ²)	Structural Engineer Grade: Difficult
2018	Topaasiparkki (Helsinki) Post-tensioned beams and slabs (6500 m ²)	Structural Engineer Grade: Difficult
2018	Tripla (Helsinki) Deformation and bracing design of load transfer level for the new station building (4000 m ²)	Structural Engineer Grade: Exceptionally difficult
2017–2019	Hertsi Herttoniemi (Helsinki) Post-tensioned horizontal structures and transfer slabs (10 900 m ²)	Project Manager Grade: Exceptionally difficult
2016–2018	Ainoa3 (Espoo) Post-tensioned horizontal structures and transfer slabs (41 000 m ²)	Project Manager Grade: Exceptionally difficult
2016–2020	Raitinkartano (Espoo) Post-tensioned horizontal structures and transfer slabs (12 500 m ²)	Project Manager Grade: Exceptionally difficult
2018	Neste Jacobs Oy Jätevedenkäsittely (Porvoo) Post-tensioned concrete tanks	External Inspector Grade: Difficult
2017	Korvatunturintie 8 (Espoo) Post-tensioned beams and slabs	Structural Engineer Grade: Difficult
2017	Pumppupuisto autohalli (Espoo) Post-tensioned beams and slabs	Structural Engineer Grade: Difficult
2017	Flamingo Wing (Vantaa) Cast-in-situ transfer beams (1440 m ²)	Project Manager Grade: Exceptionally difficult
2017	Olympiastadion (Helsinki) Post-tensioned slabs (2000 m ²)	Structural Engineer Grade: Difficult
2017	Metsä Fibre (Äänekoski) Post-tensioned wastewater tanks (D=80 m and h=8 m)	Project Manager Grade: Exceptionally difficult
2017	Lahti Aqua Mäddättämösäiliöt (Lahti) Stress analysis, strengthening design and risk assessment for existing post-tensioned concrete tanks.	Structural Engineer Grade: Exceptionally difficult

2016	Neste Jacobs Oy Jätevedenkäsittely (Porvoo) Preliminary design for post-tensioned concrete tanks (2x10000 m ³ ja 2x3200 m ³)	Project Manager Grade: Exceptionally difficult
2016	Aviapolis (Vantaa) Preliminary design for post-tensioned transfer slabs	Structural Engineer Grade: Exceptionally difficult
2016	Marinkallio (Espoo) Post-tensioned yard deck (2800 m ²)	Structural Engineer Grade: Difficult
2016	Isosaarentien 2 (Helsinki) Post-tensioned yard deck	Structural Engineer Grade: Difficult
2016– 2017	Amos Andersonin taidemuseo (Helsinki) Concrete domes (diameter 36 m and 25 m) supported with post-tensioned beams.	Structural Engineer, Project Manager Grade: Exceptionally difficult
2015– 2016	Metsä Fibre (Äänekoski) Post-tensioned wastewater tanks (D=100 m, h=12 m and D=86 m, h=6 m)	Structural Engineer, Project Manager Grade: Exceptionally difficult
2015	Kehä I Keilaniemen tunneli (Espoo) Preliminary design for a blast loaded concrete tunnel (L=220m)	Structural Engineer Grade: Exceptionally difficult
2015	Villa Breda (Espoo) Post-tensioned yard deck (875 m ²)	Structural Engineer Grade: Difficult
2012– 2016	Neste Jacobs Oy (Porvoo) Lead concrete designer in various concrete structures to the oil refinery area. Pre-design and project supervision of water treatment plant. Designer in new and renovation of old pipe bridge foundations Project manager in cable trench (600m) design project.	Project Manager Grade: Difficult
2013– 2015	Neste Jacobs Oy TL3 (Porvoo) Design of concrete structures for the Turnaround 2015 stoppage. Strengthening design of tabletop structure with prestressed tendons. Analysis and strengthening design of old pipe bridges.	Structural Engineer, Project Manager Grade: Exceptionally difficult
2013– 2015	Hakan Peat Power Plant (Rwanda) Owners Engineer consultant work in Structural and Civil Engineering. Preparing of bidding invitation documents for EPC and Boiler candidates. Comparing technical and cost differences between the EPC candidates. Negotiations with EPC candidates.	Project Manager Grade: Difficult
2013, 2014	Aaba pelikentät (Helsinki) Design of screw-piled concrete foundations for air domes to Pajamäki (66m x 46m) and Töölö P7 (91m x 61m).	Structural Engineer Grade: Difficult
2012– 2014	Neste Jacobs Oy (Porvoo) Sewage tank renovation. Concrete Lead Engineer. Design of new concrete sewage tank (340m ³). Renovation and expansion of old underground concrete sewage tanks.	Structural Engineer Grade: Exceptionally difficult

2013	ST1 (Kajaani) Preliminary design for steel-, concrete- and envelope structures for cost estimation of new Ethanol plant. Utilization of building information modeling in design, modeling and quantification using Tekla Structures.	Structural Engineer Grade: Difficult
2013	Talvivaara (Kajaani) Expansion of a gas cleaning building (809 m ²). Responsible engineer of steel- and concrete structures. Design of foundations with Tekla Structures. Analysis and design of steel structures. (809 m ²)	Responsible Engineer Grade: Difficult
2012– 2013	Keravan Lämpövoima Oy (Kerava) Expansion of a fuel house: Laboratory (420m ³) and hall (2000m ³) buildings. Steel- and concrete structures lead engineer. Design of foundations and precast elements with Tekla Structures. Analysis and design of steel structures.	Responsible Engineer Grade: Difficult
2012	Oy AGA AB (Riihimäki) Medicinal Gas Filling. Lead designer for concrete and steel structures for an expansion of an industrial facility.	Structural Engineer Grade: Difficult
2012, 2013	ST1 (Hamina, Vantaa, Göteborg, Kajaani) Structural engineering for petrochemical plant sites. Analysis of an old conveyor bridge. Predesign of steel structures for a distillation column (h=30m). Design of concrete structures for an expansion of handling facility. Renovation design of large spanning (span=25m) pipe bridge. Renovation design of steel crane beams.	Structural Engineer Grade: Difficult
2011– 2015	H+H Finland Oy Developer of calculation programs for slab and beam elements made of autoclaved aerated concrete.	Structural Engineer Grade: Difficult
2011	IKANO (Kuopio) Shopping cen. Pre-design of bracing and precast floors for a large (49000m ²) concrete-steel composite building frame.	Structural Engineer Grade: Difficult
2010- 2011	Wärtsilä/Fortum (Loviisa) Fortum Power and Heat, Emergency power plant. Lead Engineer of concrete design.	Structural Engineer Grade: Difficult
2010	Neste Oil, Teboil ja St1 (Helsinki) Kyläsaari Petrol stations. Lead engineer in a petrol station project. Design of shelters and tank foundations.	Responsible head Structural Engineer Grade: Difficult
2010	Wärtsilä, several projects Design of concrete foundations for diesel- and gas powerplants to Europe, Africa, and South America.	Structural Engineer Grade: Difficult
2008- 2011	SKOL Calculation sheet project according to Eurocodes Developer of a calculation tool for biaxially bended concrete columns according to EC2.	
2008- 2009	Viinikkala Logistics Center (Vantaa) Design of fibre-reinforced concrete floors. Design of complementary concrete and steel structures.	Structural Engineer Grade: Difficult