

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	15
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)

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-	Lippulaiva Bus terminal (Espoo)	Responsible Engineer
2020	Design of post-tensioned transfer slabs	Grade: Difficult
2016– 2018	Ainoa3 (Espoo) Post-tensioned horizontal structures and transfer slabs (41000 m²)	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

2024	As Oy Havuaukio (Turku)	3 rd party inspector of
2024	Review of balcony railings and glazing's.	structural designs
202.	Vanha Helsingintie 20 (Helsinki, Malmi)	3 rd party inspector of
2024	Review of balcony railings and glazing's.	structural designs
	As Oy Heidi ja As Oy Eloisa (Järvenpää)	
2023	Review of balcony railings and glazing's. Inspection of old	3 rd party inspector
2025	delaminted balcony glazing's.	5 party inspector
	Pasila Tulistimentie (Helsinki)	
2023-	External inspector of 3 housing buildings structural frame:	3 rd party inspector of
	16, 13 and 15 storeys.	structural designs
	· · · · · · · · · · · · · · · · · · ·	Standard Designer
2023	As Oy Helsingin Sinkkivälke (Helsinki)	Structural Designer
	Design of post-tensioned deck slab. (734m²)	Grade: Difficult+
2023	KOy Tonttulaakson pysäköinti (Espoo)	Structural Designer
-	Design of post-tensioned deck slab. (3451m²)	Grade: Difficult+
2023	Geologian tutkimuslaitos (Espoo)	Structural Designer
	Strengthening design of old concrete beam-frame	Grade: Difficult+
2023	As Oy Hellikki (Helsinki)	3 rd party inspector of
	Review of balcony railings and glazing's.	structural designs
2023	As Oy Erika (Helsinki)	3 rd party inspector of
	Review of balcony railings and glazing's.	structural designs
2022	KOy Ylioppilashuone Alina (Helsinki)	3 rd party inspector of
2023	Review of balcony railings and glazing's.	structural designs
2022	Gunillatie 3 (Helsinki)	Project Manager
2023	Design of post-tensioned deck slab. (1227m²)	Grade: Difficult+
	As Oy Kruunuvuorenrannan Kajo (Helsinki)	ard manths in an action of
2023	External inspector of designs and execution of a precast	3 rd party inspector of
	housing building (8 stories)	structural designs
	Stora Enso Oulu, bioproduct mill (Oulu)	
2023	External auditor and review of post-tensioned tanks design	Contractors Engineer
	and execution	
	As Oy Helsingin Ultramariini (Helsinki)	3 rd party inspector of
2023	External inspector of precast housing building (6 storeys)	structural designs
	Käskynhaltijantie parking (Espoo)	23. 2.012. 21 2.015.10
		Resnonsible bead
2022-	Main structural engineering design for multistorey parking	Responsible head
2022-	Main structural engineering design for multistorey parking hall. Total floor area 7332 m ² and 6 floors. Beam-slab frame.	Structural Engineer
2022-	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	•
2022-	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.	Structural Engineer Grade: Difficult+
	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. Finnoo Maren, parking structure (Espoo)	Structural Engineer Grade: Difficult+ Responsible head
	Main structural engineering design for multistorey parking hall. Total floor area 7332 m² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses. Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for	Structural Engineer Grade: Difficult+ Responsible head Structural Engineer
	Main structural engineering design for multistorey parking hall. Total floor area 7332 m² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses. Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for deck slab (11 817 m²)	Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult+
2022-	Main structural engineering design for multistorey parking hall. Total floor area 7332 m² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses. Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for deck slab (11 817 m²) Datacenter (Espoo)	Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult+ Responsible head
2022-	Main structural engineering design for multistorey parking hall. Total floor area 7332 m² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses. Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for deck slab (11 817 m²) Datacenter (Espoo) Alteration design of a warehouse to datacenter use. Main	Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult+ Responsible head Structural Engineer
2022-	Main structural engineering design for multistorey parking hall. Total floor area 7332 m² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses. Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for deck slab (11 817 m²) Datacenter (Espoo) Alteration design of a warehouse to datacenter use. Main structural engineer tasks. Footprint 4000 m².	Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult+ Responsible head
2022- 2022- 2024	Main structural engineering design for multistorey parking hall. Total floor area 7332 m² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses. Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for deck slab (11 817 m²) Datacenter (Espoo) Alteration design of a warehouse to datacenter use. Main structural engineer tasks. Footprint 4000 m². Warehouse and logistics, Lommila (Espoo)	Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult
2022- 2022- 2022- 2024 2022	Main structural engineering design for multistorey parking hall. Total floor area 7332 m² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses. Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for deck slab (11 817 m²) Datacenter (Espoo) Alteration design of a warehouse to datacenter use. Main structural engineer tasks. Footprint 4000 m².	Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult External Inspector
2022- 2022- 2024	Main structural engineering design for multistorey parking hall. Total floor area 7332 m² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses. Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for deck slab (11 817 m²) Datacenter (Espoo) Alteration design of a warehouse to datacenter use. Main structural engineer tasks. Footprint 4000 m². Warehouse and logistics, Lommila (Espoo)	Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult
2022- 2022- 2024	Main structural engineering design for multistorey parking hall. Total floor area 7332 m² and 6 floors. Beam-slab frame. Precast brickwall facades. Steel roof consisting of loadbearing steel sheets and steel trusses. Finnoo Maren, parking structure (Espoo) Main structural engineering and post-tensioning design for deck slab (11 817 m²) Datacenter (Espoo) Alteration design of a warehouse to datacenter use. Main structural engineer tasks. Footprint 4000 m². Warehouse and logistics, Lommila (Espoo) External inspector of structural designs for a warehouse	Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult+ Responsible head Structural Engineer Grade: Difficult External Inspector



2022	As Oy Särkiniemenpuisto, parking structure (Helsinki) Design of post-tensioned deck slab and intermediate floor (1873 m²)	Project manager Grade: Difficult+
2022	As Oy Särkiniemenpuisto (Helsinki) External inspector of a housing building and underground	External Inspector
		Grade: Difficult+
	parking hall designs.	
2022	Berthan Portin pysäköinti 2 (Helsinki) Design of post-tensioned deck slab, transfer slab and	Structural Engineer
	intermediate floor (1934 m ²)	Grade: Difficult+
2022	As Oy Aallonharja (Jyväskylä) Design of post-tensioned deck slab and intermediate floor	Project manager
	(1900 m ²)	Grade: Difficult+
	As Oy Aura and Vanamo (Espoo)	Designer and Project
2022	Design of post-tensioned deck slab. (2019 m ²)	manager Grade: Difficult
	As Oy Meander, parking structure (Helsinki)	
2022		Structural Engineer Grade: Difficult+
	Design of post-tensioned deck slab (2030 m²)	
2022	Kettutie parking structure (Helsinki) Design of post tensioned dock slab (1530 m²)	Structural Engineer Grade: Difficult+
	Design of post-tensioned deck slab (1530 m²)	
2021	As Oy Jätkäsaari Samoankuja (Helsinki)	Responsible Engineer
	Design of post-tensioned transfer beams	Grade: Difficult
2021	Vantaan Rasti (Vantaa)	Designer. Grade:
	Logistics center. Design of steel frame and foundations	Exceptionally difficult
2021-	KOy Sävelkortteli parking hall (Helsinki)	Responsible Engineer
2022	Design of post-tensioned transfer beams and floors (3 509	Grade: Difficult
	m²)	
	As Oy Helsingin Julius (Helsinki, Gyldénintie 2)	External Inspector
2021	External inspector of precast housing building and parking	Grade: Difficult
	carage	
2021-	Metsä Fibre Kemi bioproduct mill (Kemi)	
(2022)	External auditor and review of post-tensioned tanks design	Contractors Engineer
(2022)	and execution	
2021	Karakallion Joutsenhanke (Espoo)	Responsible Engineer
	Design of post-tensioned deck slab	Grade: Difficult
2021	As Oy Niittykummun riihitonttu (Espoo)	Responsible Engineer
_U_I	Design of post-tensioned deck slab	Grade: Difficult
2021	KOy Helsingin Jokiniementie Parking (Helsinki)	Responsible Engineer
ZUZI	Design of post-tensioned floors	Grade: Difficult
2021	Delfiinikortteli, Parking hall (Helsinki, Vuosaari)	Responsible Engineer
2021	Design of post-tensioned floors and deckslab.	Grade: Difficult
2024	KOy Vallila Park (Helsinki)	External Inspector
2021	External inspector of a underground parking hall designs	Grade: Difficult
2024	As Oy Helsingin Bysantti (Helsinki, Harjannetie 30)	External Inspector
2021	External inspector of a precast parking hall designs.	Grade: Difficult
	Uumajan bridge, repair project (Uumaja)	
2021	Designer of foundations and concrete structures required to	Designer
_021	repair the bridge	Grade: Difficult
	As Oy Charlotta ja Fanny (Porvoo)	
2021	Design of the post-tensioned transfer beams between	Designer
	parking hall and housing building.	Grade: Difficult
	parking nan and nousing building.	



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



2019-	Lippulaiva Bussiterminaalilohko (Espoo)	Responsible Engineer
2020	Design of post-tensioned transfer slabs	Grade: Difficult
2019	As Oy Kreivi, Herttua ja Markiisi (Kauniainen)	Responsible Engineer
2013	Post-tensioned beams and slabs (2090 m ²)	Grade: Difficult
2019	As Oy Portus (Helsinki)	Structural Engineer
2019	Post-tensioned beams and slabs (2070x2=4170 m ²)	Grade: Difficult
2010	As Oy Harjus, Smoltti ja Klossi (Helsinki)	Project Manager
2019	Post-tensioned beams and slabs (800 m ²)	Grade: Difficult
2012	Telakkaranta (Helsinki)	External Inspector
2019	Post-tensioned structures (2800x3=8400 m ²)	Grade: Difficult
	Tesoma (Tampere)	Project Manager
2019	Post-tensioned beams and slabs (2298 m ²)	Grade: Difficult
	Santos Park korjaus (Helsinki)	Grade. Difficall
2018	Design of repair works for post-tensioned parking slab (200	Structural Engineer
2010	m ²)	Grade: Difficult
	•	Character and Francisco and
2018	Topaasiparkki (Helsinki)	Structural Engineer
	Post-tensioned beams and slabs (6500 m ²)	Grade: Difficult
	Tripla (Helsinki)	Structural Engineer
2018	Deformation and bracing design of load transfer level for the	Grade: Exceptionally
	new station building (4000 m ²)	difficult
2017–	Hertsi Herttoniemi (Helsinki)	Project Manager
	Post-tensioned horizontal structures and transfer slabs (10	Grade: Exceptionally
2019	900 m ²)	difficult
2046	Ainoa3 (Espoo)	Project Manager
2016-	Post-tensioned horizontal structures and transfer slabs (41	Grade: Exceptionally
2018	000 m ²)	difficult
	Raitinkartano (Espoo)	Project Manager
2016-	Post-tensioned horizontal structures and transfer slabs (12	Grade: Exceptionally
2020	500 m ²)	difficult
	Neste Jacobs Oy Jätevedenkäsittely (Porvoo)	External Inspector
2018	Post-tensioned concrete tanks	Grade: Difficult
2017	Korvatunturintie 8 (Espoo)	Structural Engineer
	Post-tensioned beams and slabs	Grade: Difficult
2017	Pumppupuisto autohalli (Espoo)	Structural Engineer
	Post-tensioned beams and slabs	Grade: Difficult
	Flamingo Wing (Vantaa)	Project Manager
2017	Cast-in-situ transfer beams (1440 m²)	Grade: Exceptionally
	Cast-III-situ transier beams (1440 III)	difficult
2017	Olympiastadion (Helsinki)	Structural Engineer
2017	Post-tensioned slabs (2000 m²)	Grade: Difficult
	· · · · ·	Project Manager
2017	Metsä Fibre (Äänekoski)	Grade: Exceptionally
	Post-tensioned wastewater tanks (D=80 m and h=8 m)	difficult
	Lahti Aqua Mädättämösäiliöt (Lahti)	Structural Engineer
2017	Stress analysis, strengthening design and risk assessment for	Grade: Exceptionally
2017		difficult
	existing post-tensioned concrete tanks.	
2016	Neste Jacobs Oy Jätevedenkäsittely (Porvoo)	Project Manager
2016	Preliminary design for post-tensioned concrete tanks	Grade: Exceptionally
	(2x10000 m³ ja 2x3200 m³)	difficult



2016	Aviapolis (Vantaa) Preliminary design for post-tensioned transfer slabs	Structural Engineer Grade: Exceptionally difficult
2016	<i>Marinkallio (Espoo)</i> Post-tensioned yard deck (2800 m²)	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	<i>Metsä Fibre (Äänekoski)</i> 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	<i>Villa Breda (Espoo)</i> Post-tensioned yard deck (875 m²)	Structural Engineer Grade: Difficult
2012– 2016	Neste Jacobs Oy (Porvoo) Lead concrete designer in various concrete structures to the oil refinery area. Predesign 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 (340m3). 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 de-sign, 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 (420m3) and hall (2000m3) 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 colon (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 OyDeveloper 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 (49000m2) 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