

PERSONAL INFORMATION

Gert Robert Cornelius Pille +32 494 64 63 21 gert.pille@tractebel.engie.com

Sex M | Date of birth 01/12/1992 | Nationality Belgian

POSITION

Nuclear - Mechanical Engineer

WORK EXPERIENCE

2017-current

Nuclear – Mechanical Engineer

Tractebel – Brussels, BELGIUM (List of project references in Appendix)

- Drafting of engineering specifications for safety related equipment.
- 3D-CAD Design.
- On-site coordination in controlled zones.
- Multi-disciplinary studies on rotating equipment (Compressors, Pumps, Actuators).
- Precision repair campaigns.
- SME on Mechanical Engineering for international nuclear new build licensing.
- Pump Specialty Program.

Business or sector Mechanical Engineering | NPP support

2015-2017

Nuclear – Mechanical Engineer Junior

MCA Benelux – Brussels, BELGIUM (external employee at Tractebel Engineering)

Consultant in the Mechanical Equipment Competence Center of the Nuclear Entity.

Business or sector Mechanical Engineering | NPP support

EDUCATION AND TRAINING

2019

Summer school on plasma physics, intense lasers and nuclear fusion

Instituto de Plasmas e Fusão, Nuclear, Instituto Superior Técnico, University of Lisbon.

- Introduction to Plasma Physics
- Magnetic and inertial Nuclear Fusion
- High power and ultrashort Lasers
- Large international experiments involving Plasma Science

2019

Nuclear Pump Training

Hydro Inc., Chicago USA

- Hydraulics - Terminology and concepts
- Generating System Head Curves
- Interaction of System Head Curve with the Pump Performance Curve
- Affinity Laws and methods of modifying the performance curve to meet new demands

2019

ITER International School (IIS)

Korea Advanced Institute of Science and Technology

IIS for physicists and engineers working in the field of nuclear fusion and in research applications associated with the ITER Project and to provide them with a wide overview of the interdisciplinary skills required by the ITER Project.

Subject: Physics and Technology of Power Flux Handling in Tokamaks

2017-2018 Nuclear Trainee Program – Track 12

ENGIE

12-month training course on nuclear disciplines:

- Theoretical: Reactor Kinetics, Neutronics, Thermal Hydraulics, Fuel Cycle, Radioprotection
- Practical: Reactor Operation, Project Management, Communication

2015-2018 Internal training courses

Tractebel Engineering School

- ASME Boiler & Pressure Vessel Code / RCC-M / RCCMrx
- Safety of Nuclear Power Plants
- Welding Engineering | Metallurgy | Non-destructive Examination

2016 Heavy Metal Summer School

SCK-CEN Academy for Nuclear Science and Technology

Summer school on Gen-IV Lead-cooled fast reactor technology.

2010-2014 Master's Degree in Mechanical Engineering (honours)

Aston University, Birmingham

Thermal hydraulics, Nuclear Engineering, Control Engineering.

Mother tongue(s) Dutch and German

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C1	C1	B1	B1	B1

Communication skills Single Point of Contact. Interaction with Contractor/sub-contractors during design, manufacturing and on-site implementation phases according to communication protocol.

Organisational / managerial skills Lead Contract Owner for LTO equipment

Job-related skills Control Valve sizing calculation, Pump duty point & BEP calculation, Nuclear Process qualification, Technical-Commercial negotiation with third parties, ASME/RCC-M/KTA proficiency.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Independent	Proficient	Proficient
Replace with name of ICT-certificate(s)				

Development of design drawings in Solidworks & AutoCAD Inventor Pro.

Academic training in: AnSys Workbench, Matlab.

Driving licence Category A, Category B

ADDITIONAL INFORMATION

- Certified Repair & Replacement Engineer
- Co-Chair of the Belgian Nuclear Society -Young Generation Network

Project references:

2021 - BNDES/ETN Brazil

Lead Engineer – Nuclear Mechanical Equipment
Lead Engineer for the finalisation of Angra 3 NPP

2021 - F4E Fusion 4 Energy

Mechanical Engineer
Nuclear Equipment qualification of Drainage Pumps for High radiation and magnetic environments

2021 - ENGIE – Nuclear Metier

Nuclear Engineer
SMR Subject Matter Expert for Nuclear construction codes

2021 - Electrabel n.v. - Kerncentrale Doel (Doel - BELGIUM)

Testing Engineer
Testing Engineer for the Containment equipment leak tightness testing for Doel 3 & Doel 4

2021 - European Space Agency (ESTEC)

Mechanical Engineer
Feasibility study on the production of Pu-238 at the BR2 reactor.

2020 - ENGIE – Nuclear Metier

NTP Instructor – Nuclear Fusion
Lecturer for the Nuclear Fusion Course for the ENGIE Nuclear Trainee Program

2018-2021 Electrabel n.v. – NPP Tihange (Tihange - BELGIUM)

Mechanical Engineer – Contract Owner
Design and supply of 4 quality group C vertical pump units for the post-accidental recirculation of SI-water to the reactor building.

2018-2020 Synatom (Brussel - BELGIUM)

Mechanical Design Engineer – Contract Owner
Design & Supply of Spent Fuel Cask handling tools for the Post 2020 project in Doel & Tihange NPP.

2017- 2018 Pallas MT (Petten - NETHERLANDS)

OE SPOC Mechanical Equipment
Provide punctual engineering support to the PALLAS engineers through the Technical Hotline.
Review of PSAR Chapter 5 "Reactor"
Establishment of C&S list for Mechanical Reactor Equipment

2017- 2018 NuGeneration Limited - Manchester (Manchester - UNITED KINGDOM)

Subject Matter Expert - Mechanical Engineering
Assisting NuGen with the writing of the Generic Design Assessment (GDA) closure report for the 3 AP1000 reactors of the Moorside project.
// Establishment of a study file for the Squib Valve concept and design substantiation as well as the RCP flywheel disintegration.

2016-2018 Electrabel n.v. - Kerncentrale Doel (Doel - BELGIUM)

Mechanical Engineer - Contract Owner
Design and Supply of 4 Quality Group C air-compressor units for the post-accidental ventilation of the Annular Space.

2016-2018 Electrabel n.v. - Kerncentrale Doel (Doel - BELGIUM)

Mechanical Engineer – Contract Owner
Design and supply of 4 quality group C vertical pump units for the post-accidental recirculation of SI-water to the reactor building.

2015- BELGIUM Electrabel n.v. - Kerncentrale Doel (Doel - BELGIUM)

Mechanical Engineer
Mechanical studies on valves and pumps // Contract owner for the supply of safety related mechanical equipment for Belgian nuclear power plants // Finding alternatives for obsolete parts according to system requirements and the nuclear construction codes.

2015- BELGIUM Electrabel n.v. - Kerncentrale Doel (Doel - BELGIUM)

Assistant Contract Owner
Installation of 12 pneumatically actuated 14" isolation valves for DOEL 3 and DOEL 4 CC-Circuits.

2017 Electrabel n.v. - Kerncentrale Doel (Doel - BELGIUM)

Mechanical Engineer
Equipment Qualification of active mechanical components - Low Head Safety Injection pumps

2015 Electrabel n.v. - Kerncentrale Doel (Doel - BELGIUM)

Mechanical Engineer
Replacement of cracked bolts inside the baffle assembly of the Reactor Pressure Vessel // Baffle bolts are susceptible to cracking due to Irradiation Assisted Stress Corrosion Cracking.