

# DENIS MALOIR

DESIGN / PROCESS  
ENGINEER

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## PERSONAL SUMMARY

Process engineer with 5 years of experience in nuclear dismantling and cryogenic engineering. Proven ability to create cost-effective solutions meeting the project specifications and complying with the client's as well as regulatory frameworks. Trained in quality assurance systems and for activities in hazardous and nuclear areas.

## OBJECTIVE

Seeking a technical expertise position as a process engineer, to contribute to the process and plant development by analyzing / validating the process and equipment, propose modifications and assess their impact.

## WORK EXPERIENCE

### TRACTEBEL Engineering, Brussels, Belgium • 2013 – Today

#### Radwaste & Decommissioning Engineer:

##### Client: ELECTRABEL, Belgium:

- Identified and evaluated strategic choices based on technical, organizational, planning and legal constraints for evacuation of post-operational intermediate and low-level waste
- Issued Requests for Quotations and technically challenged resulting offers
- Participated in the design of a centralized nuclear waste management facility
- Consulted on radwaste management processes and primary water chemistry issues (Xenon-133 activity balance throughout the plant, Hydrogen recombining, etc.)

##### Client: ONDRAF Site Fleurus, Belgium:

- Preparation for the dismantling of nuclear research facilities
- Set-up of physical, chemical and radiological inventory databases

##### Client: NuGen, UK:

- Drafting of the Dismantling and Waste Management Plan for 3 Westinghouse AP1000 NPPs in Moorside, UK

##### Client: JAVYS, Slovakia:

- Consulted on decontamination techniques as part of the drafting of the Final Dismantling Plan of the Bohunice V-1 nuclear power plant

### UNIVERSITY OF LIÈGE, Liège, Belgium • 2011 - 2013

#### Research Engineer, Ph.D. Fellowship:

- Led efforts to retrofit oxygen compatibility test bench for aerospace applications
- Monitored orders and subcontractors.
- Consulted on industrial vacuum installation, non-intrusive gamma-ray densitometry, and heat exchanger design projects.

## ACADEMIC

### Bachelor & Master of Science in Chemical Engineering (Distinction): 2006 – 2011

University of Liège, Belgium

### Yearlong Rotary Exchange Program (Paul Harris Fellow Award): 2005 - 2006

Southern Door High School, USA

## LANGUAGES

English (Fluent – C2) • Dutch (B2)

## PROFESSIONAL TRAININGS

GDF Suez Nuclear Trainee Program

VCA – Safety for Operational Supervisors • ATEX Environments

SYS1 / PRAC1 Siemens Simatic Step7 • Project Management for Engineers

Object-Oriented Programming • Computer Aided Engineering/Design

## TECHNICAL SKILLS

Microsoft Office suite with Visual Basic for Applications

AutoCAD • Draftsight • Aspen Plus • MatLab • PLC software Siemens Step 7

## PUBLICATIONS

A WM Facility for the Processing of Radioactive Materials Arising from the Decommissioning Activities of the Doel Belgian NPP, 2015, Serge Vanderperre, Caroline Goessens, Candice De Jonghe, Denis Maloir, Maxime Wadin - WM2016 Conference, 2016, Phoenix, Arizona - USA.