

PERSONAL INFORMATION



BOURDY Renaud

📍 INNOVALLEE 110 rue Blaise PASCAL, 38330 MONTBONNOT SAINT MARTIN, FRANCE

☎ +33 6 27 63 22 24 // +33 6 10 94 92 98

✉ renaud.bourdy@vinci-energies.net // renaudbourdy@gmail.com

🌐 <https://fr.linkedin.com/in/renaud-bourdy-54839448>

Sex Male | Date of birth 02/05/1982 | Nationality French

WORK EXPERIENCE

Since January 2017

Project Manager at Cegelec CEM – Vinci-Energies Group



- In charge of Cigeo SS1 engineering Project
- Business:** Robotic-Special Machine Engineering and Manufacturing

From June 2015 To December 2016

Project Manager / Technical and Quality consultant – for De-Viris



DIPDE Marseille – Technical and Quality Consultant, from Feb. to Dec. 2016

Business: Nuclear industry

ROBATEL Industries Laudun (www.robatel.fr) – PM From June 2015 to Jan 2016

- RJH - D02 Sub Assembly shielding (4M€)
- Business:** Mechanical and welded equipment for Nuclear

From March to June 2015

Project Manager at Bouygues Construction Nuclear Services



SERVICES NUCLÉAIRES, Robotics and Special Machine division

- CEA-FAR Bat-26 Project (Study and Manufacturing of robotic solution for waste containers recovery and shielded analysis chain – 20M€)
- Business:** Robotics solutions for Nuclear dismantling

From September 2013 to March 2015

Manager of Robotics for Nuclear and Defence Business Unit



cybernetix, (www.cybernetix.fr)

- Project : LMJ Project, MT200-TAO, APM dismantling, SSTA
- Business:** Robotics solutions for hostile environments

From August 2008 to August 2013

Project Manager



cybernetix, (www.cybernetix.fr)

- CEA FAR Petrus Dismantling equipments, JAPC Tokai 1 SRU dismantling equipments, EDF Superphénix Dismantling scenarios, IHI Rokkasho Vitrification Melter dismantling scenarios.
- Business:** Robotics solutions for hostile environments

From July 2006 to August 2008

Project Engineer



cybernetix, (www.cybernetix.fr)

- JAPC Tokai 1 SRU dismantling studies.
- Business:** Robotics solutions for hostile environments

EDUCATION AND TRAINING

- From 2013 to 2014 **Training “Team management”**
Moortgat
- From 2009 to 2013 **Various Management training : “How to work with Japanese” / Project Management / Risk Management**
Framatech / Eurosae Highware / Piman Constulting
- From 2008 to 2016 **Various Technical training: Gas Cutting / CanOpen Network / Electrical Risks H0B0 / Overhead Crane man / Introduction to welding / HN3 Certification**
- From 2000 to 2006 **Master’s Degree in Mechanical Engineering**
Ecole Nationale d’Ingénieurs de Saint Etienne

PERSONAL SKILLS

Mother tongue

French

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Spanish	B1	B1	B1	B1	A2

Communication skills

- Cybernetix speaker at SFEN
- Familiar with public audience speaking and animating work meeting.

Organisational / managerial skills

Responsible of a 10 Project managers Team

Job-related skills

Operator of various remote controlled Robots

Expert in team working

- Good understanding of the various expertises (control command, electrical, mechanical, hydraulic, vision, etc.) to synthetize and reach the best compromise.
- Analysis of the several expertise to fasten debugging of the equipment

Computer skills

Good general knowledge

- Good user of Microsoft Office™ tools (Word, Excel, Project, Powerpoint, etc.)

- Familiar with CAD tools (SolidWorks, Catia, etc.)

Remote control software :

- TAO2000 (perTOA, Recor) : Basic User

- CyxPro : Experienced user

ERP :

- Clipper : Experienced User

- SAP : Basic User

Driving licence

B

ADDITIONAL INFORMATION

Projects

SRU dismantling project (see appendix 1), Petrus Dismantling project (see appendix 2), Bat26 (see appendix 3), RJH shielding, LMJ (CEA DAM), MT200-TAO (Getinge La Calhène - Areva), APM (CEA Marcoule)

Conferences

SFEN 2013 – WNE – Innorobo - Assises du Démantèlement

Honours and awards

Member of Fusion for Energy Technical Advisory Panel ([TAP – F4E – ITER](#))

JAPC (SRU dismantling customer) congratulations letter, CEA FAR (Petrus dismantling customer) satisfactory letter

References

John BLIGHT: Cybernetix Business Unit Manager 2006-2008 +33 6 08 87 96 66

Eric AUSCHITZKY: Cybernetix Business Unit Manager 2008-2010 +91 733 11 02263

Masahiro SAWAMOTO (eEnergy Cybernetix customer) +81 355 497 771

Frédéric BRIONES: Robotel South-East Director since 2014 and Cybernetix Commercial Manager 2011-2014+33 6 61 28 64 95

ANNEXES

- Appendix-1 SRU project presentation
- Appendix-2 PETRUS project presentation
- Appendix-3 Bat-26 project presentation

Appendix 1: SRU Project presentation

SRU dismantling equipments are divided in 2 main sub-assemblies:



Primary Cutting System (PCS)



Secondary Cutting System (SCS)

Both are remotely operated through cameras and 3D environment (CyxPro®) and equipped with SAMM Hydraulic arms; 2 SAMMs for PCS and 1 SAMM for SCS.

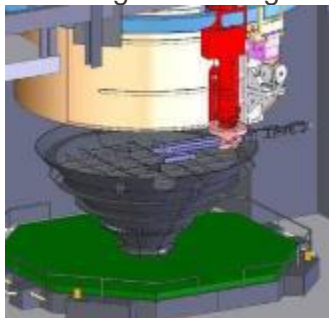
Each mechanism has 11 degrees of freedom and represents a total of more than 30 tons of remote handling equipments.

These equipments were designed for the dismantling of the 4 Steam Raising Units (SRU) of JAPC Tokai 1 Power Plant. PCS is designed to cut the Steam Raising Unit in Slices which are then transported to the SCS which is to cut them in smaller pieces.

Several cutting tools have been developed, adapted to remote control and qualified for this project:

- Propane Cutting Torch
- Hydraulic Diamond Disc Cutter
- Electric Diamond Disc Cutter

Designed and qualified in France these equipment were then transported and assembled at Tokai site for operator training and starting dismantling:



Scenario and Design



Qualification tests



On-site assembly

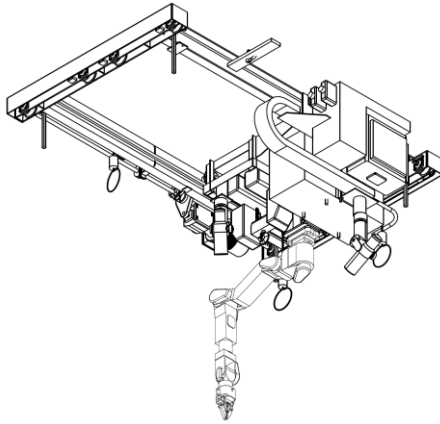
Starting my career as a project engineer, I participated to equipment's design by studying dismantling scenario and defining each sub-assembly's requirements.

I then evolved to become project manager, in charge of equipment integration and test. During this period I developed competencies in electronic, control-command, vision and hydraulic.

During later phases I've been in charge of the project's assembly on-site, operator's training and commissioning.

Appendix 2: Petrus Project presentation

Petrus dismantling equipments are divided in 2 main sub-assemblies:



Hot Cell dismantling X-Y Gantry



Galleries' dismantling Brokk

Both are remotely operated through cameras and 3D environment (CyxPro®) and equipped with a Maestro Hydraulic Force feedback arm.

They are to perform various dismantling operations in hostile environment like disc grinder cutting, reciprocating saw cutting, chisel cutting, complex parts disassembling and heavy handling (up to 100kg).

After validation of the study phase in 2011, equipment were manufactured, assembled, tested and qualified from 2012 to mid 2013.



Both robots were supplied with energy and communication through an innovative umbilical management system automatically operated from the stress measured at the back of the equipment.

Not only operation's qualification had to be tested but also failsafe mode and degraded mode to ensure the possibility of withdrawal in case.

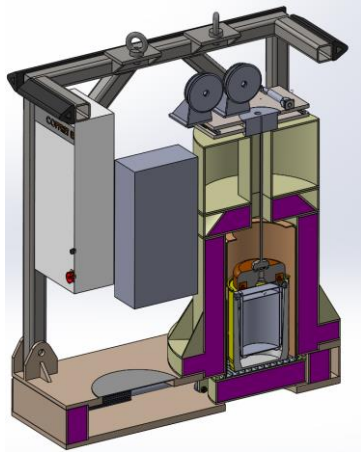
My role on this project was initially to manage the design team of the Hot Cell equipment and then evolved in supervising integration, assembly, setup and qualification for the whole project.

This included fine adjustment of the closed loop parameters of the maestro arms and umbilical management, debugging and improving equipment's cabling with the support of experts of each field of expertise (control command, electronic, hydraulic, mechanics, etc.).

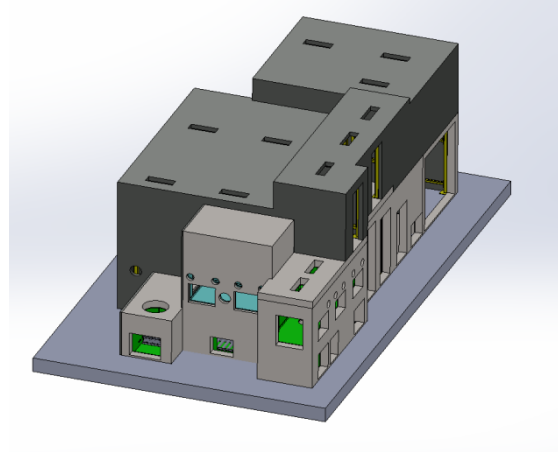
This project ended for Cybernetix in mid-2013 and was a great success on every aspect (technical, financial and respect of the commitments).

Appendix 3: Bat26 Project Presentation

Bat26 Project consisted in the study and manufacturing of Robotics solutions, used for the withdrawal of damaged waste container from pits, and the hot cell that would be used to characterize them, sort them and recondition them.



Robotic solution for damaged 50L and 200L containers withdrawal



Hot cell for characterization and waste reconditioning

This project was based on a preliminary design supplied by customer during the call for tender. Starting the detailed design we identified some incoherence that lead to drastic evolution of the design to be able to comply with routing and safety requirements.

As project manager, I presented the discrepancies between proposed design and requirements, first internally and then to the customer to move together to the most suitable solution and design in terms of schedule and cost.

Nuclear measurement was another challenging aspect of this project. In order to avoid criticality risk, we needed to control, inside the different room of the hot cell, the amount of fissile material that was introduced. The definition of appropriate process was complex considering uncertainties on the origin of the wastes inside each container and their activity.

Following contractual and personal issue I decided to end my collaboration with BCSN prematurely but with the satisfaction of having set the project on track technically and contractually by rebuilding communication with CEA customers.