

Curriculum Vitae



Personal information

First name(s) / Surname(s) **Marc T. C. Cornelis**
Address(es) Carrer Major de Sarrià 108-1-1, E-08017, Barcelona, Spain
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E-mail marc.cornelis@telefonica.net
Nationality Belgian
Date of birth 11.05.1968
Gender Male
Additional information <https://www.linkedin.com/in/marc-cornelis-4a328916/>;
https://www.researchgate.net/profile/M_Cornelis/research

Present employment

Technical writer and translator (self-employed, part-time since 2017, full-time since October 2019)

Translation experience references (non-exhaustive):

- La Ciencia de la Carne (Dario Bressanini), ISBN 978-84-17127-73-2 (Italian>Spanish)
- The political representation in the Ancien Régime (Joaquim Albareda, Manuel Herrero Sánchez), ISBN 978-1-138-33532-5, 6 articles (Spanish/French>English)
- "Fear – Trump in the White House" (Bob Woodward), ISBN 978-84-17181-52-9, 21 chapters (English>Catalan)
- Bruce Springsteen - Glory Days (Michael O'Neill), ISBN 978-84-18246-01-2 (English>Spanish)
- Medical articles for the International Conference on Preventing Overdiagnosis (Spanish>English) and Canal Salut of the Generalitat de Catalunya (Catalan>English)
- Year reports and articles for ICIP (International Catalan Institute for Peace) (Spanish/Catalan>English)
- Articles on education for Fundació Jaume Bofill (Catalan>English)

Technical writing: examples of published articles:

- Evaluation Engineering: Modular Building Blocks Simplify DAQ Design <https://www.evaluationengineering.com/instrumentation/data-acquisition-systems/article/21143185/instrumentation-technologies-modular-building-blocks-simplify-daq-design>
- Instrumentation Technologies: Industrial DAQ Applications <https://www.i-tech.si/news/industrial-daq-applications/>
- Red Pitaya:
 - o Selecting the best oscilloscope for your application <https://www.redpitaya.com/n126/selecting-the-best-oscilloscope-for-your-application>
 - o Automated signal logging applications <https://content.redpitaya.com/blog/signal-lab-250>
- Engineering 360: DCUs, critical step for safer & autonomous driving https://www.globalspec.com/FeaturedProducts/Detail/InstrumentationTechnologiesDOO/321072/DCUs_critical_step_for_safer_autonomous_driving

Work experience

| | |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dates | September 2009 – October 2019 |
| Occupation or position held | Technical Officer TF coils team |
| Main activities and responsibilities | <ul style="list-style-type: none">- Technical follow-up and contract management of the manufacturing of superconducting TF coils for the ITER experimental fusion reactor prototype, including verification of compliance with technical and schedule requirements, risk assessment and mitigation.- Participate in production of technical specifications, setting up tender process, tender evaluation and contract negotiations- Overall responsible for QC related issues of all TF coil procurement contracts- Coordinator for recruitment and contract administration of external experts and resident inspectors |
| Name and address of employer | F4E Fusion for Energy Carrer Josep Pla 2, Torres Diagonal Mar Ed. C Barcelona Spain |
| Type of business or sector | European domestic procurement agency for ITER |
| Dates | April 2005 – July 2009 |
| Occupation or position held | Project Engineer RF & Diagnostics |
| Main activities and responsibilities | <ul style="list-style-type: none">- Technical contract follow-up for RF cavities and beam diagnostics components- Participate in production of technical specifications and contract negotiations- Mechanical design of e⁻ beam diagnostics components- Coordinate layout and integration of RF plant and high-power lab, participate in installation |
| Name and address of employer | CELLS Cerdanyola del Vallès (Barcelona) Spain |
| Type of business or sector | ALBA Synchrotron light source |

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|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dates | May 1994 – July 1998 / April 1999 – March 2005 |
| Occupation or position held | Project Engineer LHC Main Dipoles section |
| Main activities and responsibilities | <ul style="list-style-type: none"> - Responsible for daily technical follow-up of the supply contract for 400 LHC superconducting dipole cold masses with the French consortium Jeumont-Alstom. Act as focal point and CERN spokesperson in all communications between CERN and dipole manufacturer. - During prototype phase, participate actively in a wide range of mechanical and electrical tests - Analyse validity of technical improvement proposals, participate actively in establishing and improving manufacturing processes and quality procedures - Control financial aspects of contract execution, act as advisor towards financial committee in charge of extra-contractual cost negotiations - Supervision and performance evaluation of technicians attached to the project |
| Name and address of employer | CERN Geneva Switzerland |
| Type of business or sector | European Laboratory for Particle Physics |
| Dates | September 1998 – March 1999 |
| Occupation or position held | Technical Editor / Internet Editor |
| Main activities and responsibilities | <ul style="list-style-type: none"> - Responsible for IPE (Industrial Products Eastern Europe) editorial contents, edit articles. - Edit contents of items for IEN (Industrial Engineering News) website. - Both technical magazines are published in English |
| Name and address of employer | Pepco / Reed Elsevier Brussels Belgium |
| Type of business or sector | Publisher technical magazines |
| Dates | December 1991 – April 1994 |
| Occupation or position held | Product Engineer |
| Main activities and responsibilities | <ul style="list-style-type: none"> - In charge of technical-commercial aspects of the sales of a product range, including e.g. proxy switches, light barriers, counters, magnetic valves, temperature controllers, etc. - Analyse technical problems and propose low-cost solution packages - Give technical advice related to industrial components to automation team |
| Name and address of employer | Vandecappelle N.V. |
| Type of business or sector | Distributor industrial electrical components / automation projects |
| Education and training | |
| Dates | September 1986 – July 1990 |
| Title of qualification awarded | Industriële Ingenieur Electriciteit – Electrotechniek (Master of Science in Industrial Sciences – Electricity) |
| Principal subjects/occupational skills covered | <ul style="list-style-type: none"> - Electrotechnics, electrical machines, electrical power production and distribution - Basics in Electronics (analogue – digital – power electronics) - General sciences (mathematics, physics, chemistry) - Informatics (programming language Pascal) - Mechanics and thermodynamics |
| Name and type of organisation providing education and training | KaHo Sint-Lievens Ghent Belgium |

Personal skills and competences

Mother tongue(s) **Dutch**

Other language(s)

Self-assessment

European level ()*

English()**

French()**

Spanish()**

German

Catalan

Italian

| Understanding | | | | Speaking | | | | Writing | |
|---------------|-----------------|---------|------------------|--------------------|------------------|-------------------|------------------|---------|------------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user |
| C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user |
| C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Independent user |
| C1 | Proficient user | B2 | Independent user | B2 | Independent user | B2 | Independent user | B1 | Independent user |
| C1 | Proficient user | C1 | Proficient user | B2 | Independent user | B2 | Independent user | B2 | Independent user |
| A2 | Basic user | A2 | Basic user | A2 | Basic user | A2 | Basic user | A2 | Basic user |

(*) *Common European Framework of Reference for Languages*

(**) *Formally certified levels by authorised bodies*

Technical skills and competences

- An electrical engineering degree, combined with professional experience in superconducting magnets, accelerator components and mechanical assembly, gives me insight in a great variety of technologies and capacity to cover a wide range of complex technical issues and problems.
- 25 years of experience in high-tech scientific projects: LHC, ALBA, ITER, of which 20 years in the manufacturing of superconducting high-field magnets and 4 in accelerator RF & Diagnostics components

Computer skills and competences

- Operating systems: Microsoft Windows; Unix (basic knowledge)
- Programming language: Pascal (basic knowledge)
- CAO: I-deas; Autocad (thorough knowledge)
- Microsoft Office (good knowledge)

Other skills and competences

Excellent editorial skills

Specialised courses:

- Project Management: PMBOK, Beginners (2010) and Advanced level (2013)
- Negotiation strategies: F4E in-house course, EADA, 2013
- KIT Fusion Summer School, Karlsruhe (D), 2012
- Welding: Basic training in Welding Technology, ISQ, 2009 ; Introduction to Arc Welding and Advanced Welding Processes, TWI, 2013
- NDT: Basic Training in Non-Destructive Control, ISQ, 2009
- CAS (CERN Accelerator School): Specialised course in Beam Diagnostics, Dourdan (F), 2008
- USPAS Accelerator School: Fundamentals in Accelerator Physics, Boston (US), 2006
- CAS: Basic level in Accelerator Physics, Vienna (AU), 2004
- Apave: Electrical safety in Low & High Voltage systems, Geneva (CH), 2002
- CERN: Cryogenics & Applied superconductivity, Geneva (CH), 2001

Additional information

Thesis: Cos ϕ -improvement using synchronised asynchronous motors.