

Curriculum vitae

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PERSONAL DATA

Nationality: Belgian
Date of Birth: June 29, 1971 Place of birth: Duffel
Marital status : Married to Sandra Hendriks , born October 5, 1974
Wife Occupation: Clerk, UZA
Family situation : 2 adult children,
One son: Yenthe, born in 1998. One daughter: Ines, born in 2001.
Driving license: B and C (car and truck)
National number: 71062950561

WORK EXPERIENCE

07/2010-...

Independent industrial draftsman / designer using Pro-Engineer WF 3.0 - 4.0 and 5.0 , 2.0 and 3.0 with Creo AAX (complex assemblies) , for industrial manufacturing plants which make small & large production series. Used in automotive, electronic , medical , semiconductor and maritime sector. Complex frames and sheet metal applications.

See also <https://fysim.be> .

Linkedin profile: be.linkedin.com/in/fysim/

References: Fujifilm, Xeikon, Synergie Nederland, VDL-IM, VDL-ETG, ASML, Cymer, PDM, DEC (DEME), Verhaert space, Nikon Metrology, Optomatters, TE, Niko.

The above information is limited due NDA's.

Supplement self-employment 2010-2014:

- Electrical socket: 7 months (design tool creo elements at Niko)
- Mechatronical device / tooling: 3 months (Nikon)
- Solar Industry: 6 months: Design chemical distribution cabinets (Fujifilm)
- Medical sector : 18 months : design intensive nursing high tech bed serving nursing burns (Synergie Nederland)
- Semiconductor engineering : 18 months ... (3,5 months Cymer, SD, CA, USA)...
 - F & T; Cabling / piping / support structure / volume claim issues . (VDL-ETG / ASML)
- Piping in process plant Latexco: 3 months via Abutriek.

Supplement 2016-2019-2021-2023

- Design of small trailer with mechanical interchangeable loading box. (Trimork)
- Design of small electronic housings and add-ons (Anerma)

05/2022-....

Fysim bv

Pragmatic Mechanical Architect / Coach, VDL Industrial Modules, near Helmond (NL). Critical Design review Enclosure EXE 5000 ASML, Veldhoven (NL). Design concepts, EPS doc & design reviews. General support expert engineers & team EM designers.

Industrial Design of bottle caps, diverse types and variations (Eurocorck, Rotselaar)

Mechanical development FMCG & Mechatronica system, Verhaert, Kruikeke (BE)

02/2021-04/2022

CE auditor, machine safety, coach design in general, Avant Machinery, Sint-Truiden.

04/2020-02/2021

Mechanical Architect / Coach, PDM Industrial Management Services België, near Herentals. Assignments different projects ASML / VDL-IM / VDL-ETG. Design concepts, EPS doc & design reviews. General support expert engineers & team EM designers.

10/2015-12/2019

Engineering / Project manager, Stockx Carconstructie (Technicalpoint), near Diest: Design/Development of new transportation vehicle (passenger bus, light weight modular) based on a donor truck. Technical product documentation of daily activities. Design with Creo 2.0. Restructure organisation of 6 construction workers, HR interims. Design and validation (FEA and physical lab/real world) of haffabricate by dynamic testing,

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welded aluminium constructions and high strength steel.
Process steps for production and assembly, materials and surface finish.
Infrastructure design of stability table for vehicle of 18 ton maximal.
Welding jigs, small and large.
Outsourcing half fabricates and inner and outer trim parts.
Documentation homologation vehicles... .

- 06/2015-09/2015 *Design engineer, Van de Velde Controls, te Lint:* PDM lay-out and engineering documents, properties definition, Code generator, previous topics in preparation of new ERP application, Damper valves dimensioning, PED valve body certification and documentation Design tool Solidworks, usage of basic linear FEA
- 07/2009-06/2010 *Project engineer Minkels, (current Legrand) :* datacenters dimensioning , integration monitoring , cooling, cabinet construction , ..., using Pro-Engineer Wildfire 4.0 .; 3 projects in the UK and Europe
- 04/2007-07/2009 Independent artist / designer aid of Pro-Engineer WF 2.0 , , these industrial plants which make production series for automotive, electronic , medical and maritime sector. Complex frames and sheet metal applications.
- Supplement independent activities 2007-2008:
- Roosen Fijnconstructie (Arendonk), chassis X -ray machine , lift system 3D scanner , relay cabinets pharmacy, etc ...
 - Roosen Netherlands (Eersel), serving container supply through downtown trams , etc. ...
 - Blommaert (Wijnegem), radar mast, etc. ...
 - Provan (Genk), semi-finished chassis engine , ie front construction and rear construction.
 - EREA (Wijnegem), study internal lighting trains
 - Coxx mobile solutions (Pulderbos), van chassis with pick-up/drop-off system containers
 - Frerox (Wommelgem), semi-finished sheet metal serving electronics, etc.
- 06/10/2005 *Designer Electro- Mech.* Design tool Pro-Engineer Wildfire 2.0 incl . Advanced assembly.
- 16/09/2005-01-04-2007 *Designer Technical service chassis , Van Hool NV Bus and cars, at Lier-Koningshooikt.* Parts and accessories that are placed on the main structure of a vehicle, with usage of design tool Pro-engineer.
- 09/10/2003-15/09/2005 *Designer-illustrator electro mechanical, Roosen Fijnconstructie nv, at Arendonk,* Job involved:
- Elec.-mech. design of devices for medical sector
 - BOM and make parts procurement
 - tenders and negotiations components suppliers and subcontractors.
 - plate and tube semi design
 - production support, concerning:
drawings management i.v.m. changes eg . for bus chassis construction design tools , eg . Welding jigs , bending, ... (end-customer VDL-Bova)
- Tool: Design using 3D parametric design package Pro-Engineer Wildfire 2.0 Advanced Foundation Module Solid design and Sheet Metal)
- 03/2002-04/07/2003 *Design engineer mechanics, M-Tec, R&D Broadband.* Develop mechanical shielding for high frequency applications. Enclosures designs for the telecommunications market. Cast aluminium enclosures for outdoor (open air) and plastic enclosures for indoor applications. Several 19-inch rack applications. (Pro/e)
- 10/1998-03/2002 Technical employee , M-Tec , production Broadband . All-round job (mechanics, electronics, electricity and high frequency).

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- 01/1998-10/1998 Draftsman (clerk), Van Hool NV , engineering buses, outlining with Autocad R14 chassis (engine mounting , steering systems , supporting structure , ...)
- 02/1992-01/1998 *Electro-mechanic, Mechelen Technologies (M-Tec)* . Following a brief interim period. (Worker). Perform mechanical adjustments to enclosures and cooling cores for distribution amplifiers , as well as the mounting thereof. (This for the first 3 years). Working out of small parts and create the prototypes of these. Measuring and testing of finished products. (Mechanical / electrical)

QUALIFICATIONS

- 2000-2002 B1 Graduate (Industrial Bachelor, Higher Education Short Type) Electricity, minor electronics. T.S.M. adult education.
Thesis topic: Autonomous Vehicle with μ C and I²C bus.
- 1994-1996 Company management , C.M.O. Mechelen , course law, business administration, accounting and social legislation.
- 1994-1996 B2 Industrial electronics, C.M.O. Mechelen, qualification and competence certificate obtained .
Thesis topic : Field)
- 1989 A2 mechanics, V.T.I. Lier, diploma and certificate of competence of earned technician.

OTHER COURSES

- 04/2014 Training Advanced assembly design; Detailed drawing design essentials & Flexible modeling design; Sheetmetal ; Mechanism design using PTC Creo Parametric 2.0 .
- 05/2005 Training operator and programmer for plate cutting laser 2D and 3D Mazak Spacegear.
- 04/2005 Training upgrade Pro-E 2001 to Wildfire 2.0.
- 10/2003 Training supplier audit for buyers . (Organized by Cevora)
- 10/2003 Education Access basic Autocad 2002 2D / 3D. (Organized by Cevora)
- 09/2001 Certificate Pro-Engineer 2001 (3D technical drawing) 3 modules : Introduction to PE ; Fundamentals of drawing ; sheet Metal.
- 01/1998 Certificate training Autocad R14 (2D technical drawing)
- 1997 Initiation Course automation : several automation systems for homes or medium sized buildings. (Using fieldbuses)

ACTIVITIES

- Design of an autonomous vehicle (mechanical , electronic and software). Design: A vehicle build that , by means of sensors independently finds its way into an obstacle parcours . Use of Basic Stamp , I²C and one wire components, see also www.melexis.com .
- Owner Fysim bv, project room and workspace available, also towards STEM activities and basic or advanced education courses, <https://fysim.be>

COMPUTER EXPERIENCE

- Access, Word, Works, Excel, Visio, Win2000, XP, Powerpoint, Outlook, ...
- Autocad R14 experience, Autocad 2002 2D/3D program.
- Pro-Engineer Wildfire 2.0 – 3.0 – 4.0 – 5.0 and AAX, Creo 2.0 through 9.0,
- +20 year work experience Pro-E (Creo). 3 modules, check out www.ptc.com .
- IntraLink, Windchill, PDM, parametric models, Teamcenter, basic NX user.
- Creo elements solid design and ME10 (6 months)
- Unigraphics nx, Solidworks, basic knowledge.
- Electronics simulations: electronic workbench, pcb express
- Basic stamp applications (PIC-controller).
- Initiation course C++ .(Graduate education).
- Wordpress website <https://fysim.be> , own company.

LANGUAGES

- Dutch: mother language
- English : working proficiency
- French and German : basic notes

Linkedin: <https://www.linkedin.com/in/fysim> ,
engineering portfolio in post on linkedin or on request.