

# PDS Administrator/Coordinator/Trainer/Support Analyst I M M E D I A T E   A V A I L A B L E



## Ing. Steven Convens

Hoeve van Gemp 5

2430 Laakdal (Belgium )

( Belgian Mobile +32 (0)477/31.35.09

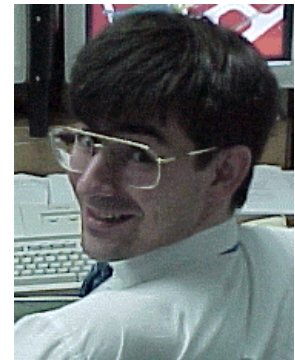
Ê US Voice & Fax +1 305/67.50.331

- sconvens@hotmail.com

ICQ 75692311 & MSN Messenger

NetMeeting Videoconferencing: ils.advalvas.com

" <http://MYplace.to.be/convens>



## Objective

Provide application support, development, training, quality control, scheduling, throughput optimization and progress tracking of ***Intergraph 2D/3D PDS (Plant Design System)*** projects on Windows NT. Ready to travel and relocate worldwide. Broad interest and knowledge of ***CAD/CAE/IT industry***. Solid Knowledge on Windows NT, Networking concepts, plotters, PDS System administration, PDS structure and relational database concepts. Familiarity with piping specifications (ASME B31 pressure ratings, material types and safety classes), piping fabrication, (computer aided) stress analysis, ***engineering workflow and terminology***.

## Recent Experiences

### ***2D/3D PDS Application*** *INTERGRAPH (Process & Building IT Solutions Company), Toronto, Canada*

#### ***Specialist/Engineer***

*01/00-06/00*

*CONTRACT*

- General duties included front line support, consultancy, demonstration and training for Intergraph's PDS (Plant Design System) and Smartplant products, used in the process and plant design industries. The work region was not restricted to the Toronto Area but included visits to Montreal, Vancouver, Calgary and Huntsville. The responsibilities included, but were not limited to PDS Equipment Modeling, Piping Designer, Drawing Manager, Report Manager, Piping Spec writing, Isogen customization, Piping support Modeler, Material Data Publisher, Stress Interface, Clash Management, Frameworks Plus, DBaccess, EDEN, PDS2D P&ID, SmartPlant Review, RIS, SQL and Oracle.

### ***Senior 3D PDS Piping*** *BECHTEL (Engineering Procurement and Construction Company), London, UK*

#### ***Support Coordinator***

*09/99-12/99*

*CONTRACT*

- Conducted for the Piping department the full PDS 6.3.1 support of three worksharing joint ventures. Daily responsibilities involve PDS Piping troubleshooting, i.e. piping commodity data (PCD's), piping material classes (PMC), ISOGEN setup, pipe supports, assemblies and assisting in the training of CAD personnel.
- Worked closely together with piping engineers, routing piping as part of design effort, using industry practices and rules of thumb. Experience piping and layout design of a process plant.
- Developed and maintained CAD/IT standards, quality assurance procedures and engineering workflows. Facilitated the reviews and progress of the design, resource planning and budgeting.
- Batch uploaded data into PDS database and extraction from database using SQL, RIS, PERL, MSAccess
- Related any problems with models or data to database. Use EDG & Axiom utilities to fix corrupt CAD files. Expanded my knowledge on MDL and Microstation related programming languages.
- Further elaborated EDEN, DBaccess, Piping and Equipment FORMS development skills in the PDS environment. Familiarized with ORTHOGEN, SPOOLGEN, SYSGEN, FORMAT FILE EDITOR.and Material Data Publisher

### ***Plant Design System***

#### ***2D/3D Administrator***

#### ***Support Engineer***

*10/98-09/99*

### *BECHTEL (Engineering Procurement and Construction Company), Rayon, Thailand*

- Contracted to Bayer to act as their representative for preserving 2D/3D PDS 6.2 project deliverables. The Polycarbonate project executed by Foster Wheeler, encompassed 2200 isos and was in mixed ANSI/DIN standards.

CONTRACT

- Assisted Bayer Management in the PDS acceptance. Perform set-up, system support and development for in house PDS system. Executed set-up of interference checking.
- Secured connection with Access97 via ODBC to the PDS Oracle database for easy reporting
- Setup Isogen & Iso extraction, Intelligent P&ID's & EEraceway. Configured DLT & DAT drives. Scheduled and intermittent data backup & PDS report. Assured Y2K compliance. Responsible for 6.2=>6.3.1 data/software upgrade. Realized as-built PDS models & performed quality checks.
- Setup and troubleshooted Designreview 3.7. Ran training courses for leads and designers on design review. Created an on web technology based Graphical User interface to Designreview for easy access. Maintain and upkeep various design models&flow diagrams generated by PDS.
- Administered a Digital Printing Room. This Microsoft ASP and IIS 4.0 web-technology based application allows retrieval, viewing and printing high-fidelity plots via the web. Explored implementing possibilities of Smart Plant Explorer.

**Plant Design System  
Owner/Operator**

03/98-10/98

PROCTER & GAMBLE (Food and Beverages Engineering), Mechelen, Belgium

- Coordinated the worksharing process between Fluor Daniel and Raytheon and assisted with all aspects of PDS 3D version 6.2; plus EEraceway, PeHVAC, Oracle server & workstation setup. Modified DDL's to allow worksharing. Interacted daily with Intergraph personnel.
- Wrote the specifications and implemented P&Gs Intergraph PDS 6.3.1 engineering environment, i.e. loaded Windows NT on to TDZ2000 stations to act as server, designreview or workstation. Uploaded Oracle 8.03 and PDS 2D/3D 6.3 products, set-up a Test express project and, supported RDB, pipe specs (PCD and PMC) & ISOGEN. Created 2D/3D demonstrations and presentation for management appraisal. Expanded knowledge on Design and layout routing.
- Encouraged people to take benefit of the cost-effective use of 3D visualization in the construction.

**CAE Consultant  
Process Industry**

11/97-01/98

CONTRACT

CAP GEMINI (Business & IT Consulting), Brussel., Belgium/Utrecht, The Netherlands

- Contributed to the analysis study of the Plant Information Management Cycle of the Global Borealis Group. Supplied the basic information for an International Application Role-out. Assisted the evaluation of three PDM products (i.e. AIM, Documentum, MatrixOne)

**IT/CAD Manager**

03/96-10/97

TECHNIP ITALY(Engineering P&C company), Geel,Belgium/ Rome, Italy

- Conducted the top down implementation and troubleshooting of a \$300,000 2D/3D CAD system. Intergraph PDS 6.1 (Plant Design system) reduces engineering costs with 30% and operates on an Oracle7.3 WindowsNT 4.0 environment. Interfaced PDS with Gtstrudl, a civil FEA software package.
- Experience/duties in design, system development/administration of the CAD system and experience working with large multi-discipline projects.
- Gained experience in PDS modularization, access, structural integrity and other guidelines and standards established for plant design.
- Used PDS functions, including the creation and editing of equipment and piping models, creation and revision of composite drawings and pictorial rendering, and extraction of piping isometric drawings using ISOGEN.
- Perform terminal setup of CAD Systems at user locations & equipment maintenance coordination.
- Responsible for the creation of an intelligent P&ID's /data sheets for a J&J Hydrogenation Unit.
- Upgraded successfully a UNIX 5.4 PDS Project with 4.3 RDB, received from Novartis, to 6.1 PDS windows NT project. Experienced Front-end PDS user support.
- Coordinated the evaluation of three Product Data Management systems (i.e. AIM, Altris, Novasoft) for the Maintenance, Operations and Engineering Dep. of the Amoco PTA3 plant.
- Created a database which monitored the piping-supply, i.e. the critical path of a plants construction.
- Established and governed full fledged LAN/WAN i.e. Cisco Router, Novell 4.11,Shiva Lanrover, hubs, ISDN, Proliant, NT 4.0, RAS, Unix emulation, TCP/IP, in limited time.
- Incorporated complete 2D CAD environment (Acad R14c4, GTXRaster, RasterCAD)

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**Education** 91 to 95

- Insitute of Technology Groep T, Leuven, Belgium

**Chemical Engineering option Process Engineering**

98

- VDAB Training and Education center, Hasselt, Belgium

**Industrial Automation (Pneumatics, Electro Pneumatics, Hydrolics, PLC)**

00

- Intergraph Education Center, Huntsville, Alabama, USA

**Tools to Help Manage PDS 3D Specs in a Project (Advanced)**

In this seminar experienced PDS 3D spec writers learned about the diagnostic tools available with PDS such as Reference Data Base Revision Manager, Piping Job Spec Report Manager, verify RDB library, Commodity Synonym library, Bolts and Gaskets. These tools will help

ensure the integrity of the model with the reference database as well as keeping the specs up-to-date.

00 **How to Increase Productivity with ISOGEN (Advanced)**

In this seminar experienced PDS 3D users will learn about key productivity features such as repeatability, revision control and creation of isometric control sheet using ODBC.

00 **SmartPlant P&ID Automation Layer (Advanced)**

This workshop introduced the Automation Layer, a powerful feature within the SmartPlant P&ID product. With the Automation Layer, you can seamlessly integrate your existing project applications with SmartPlant P&ID. In addition, you will be able to extend the product in ways to fit your specific work processes. In this workshop, the student will learn how to integrate an external data source with SmartPlant P&ID and will create an example routine to extend its functionality. An intermediate level of Visual Basic experience is required, including an understanding of creating classes and implementing interfaces. Key topics include: the SmartPlant P&ID data model; Calculation and validation interfaces; Import interface.

00 •The Center for Professional Advancement, East Brunswick, New Jersey, USA

**Piping Design, Analysis and Fabrication**

The course reviewed the basic requirements of the various sections of the ASME B31 Code for Pressure Piping with emphasis on B31.1, Power Piping; B31.3, Chemical Plant and Petroleum Refinery Piping; and the piping portions of ASME Section III, Nuclear Power Plant Components, Classes 2 and 3. General topics in the course include: pressure design, flow and sizing considerations, flexibility analysis, dead loads, equipment loads, dynamic loads, and supports and restraints. Applications of these concepts, including simple hand analysis methods and computer based analysis methods, will be demonstrated. Examples of the required analysis and sources of further information will be provided. The practical aspects of material selection and fabrication will be considered, including materials for high and low temperature service, cutting, bending, welding processes, heat treatment requirements and nondestructive examination. Code requirements and the practical limitations of each operation will be discussed, as well as the economics of material selection and alternate fabrication processes. A demonstration was held of computer software that can be used to assist in piping analysis.

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## Skills

- Excellent **communication** skills; fluent in English and Dutch, good in French and German,
- Extensive knowledge on **economical analysis** and **project planning**: balance sheets, annual reports, NPV, IRR, ROI, Pert planning, Gantt planning, recourse planning etc.
- Operating Systems**: MS-DOS. Windows 3.X, Microsoft, Windows For Workgroups MS, Windows 95/98, Microsoft Windows NT Server/Workstation (3.51 and 4.0), Microsoft Windows NT Resource Kit, Novell 4.11, OS/2 Warp, UNIX (Intergraph CLIX), IRIX.
- Office Software**: Microsoft Office Professional. Microsoft Project, Word Perfect, Lotus 123, Coreldraw, Acrobat, Chemdraw, Hyperchem, Unix vi,
- CAD/CAE and Graphics Systems**: Bentley Microstation, PDS Equipment Modeling, PDS Piping Modeling, Isogen, Spoolgen, PDS Reports. PDS Schematics, Design Review, Frameworks Plus, EE Raceway, PE HVAC, PDS Batch, PDS License, Intergraph Interplot, Intergraph IRAS B. Intergraph IRAS Engineer, ACAD 13/14/2000, MathCAD, ChemCAD, Visio, Adobe Photoshop, Adobe Illustrator, Adobe Streamline, Adobe Premier, QuarkXpress
- Electronic Document Management**: Intergraph DM Manager Client, Intergraph DM2, Intergraph DM Redline, Documentum
- E-Mail and Groupware**: Microsoft Exchange, Outlook, Lotus Notes, Eudora, Groupwise 5,
- Internet**: Microsoft Front Page, Netscape Composer, Microsoft Internet Information Server, Microsoft Net Meeting Server, Microsoft Personal WEB Server, Microsoft Image Composer.
- Database Systems**: Microsoft Access. ODBC drivers, Oracle 7/8, Oracle SQL, Intergraph DB Access, Microsoft SQL 6.5/7.0 Server, Microsoft SMS Server.
- Software Development**: OOA, Visual Basic 5/6, Turbo Pascal, C, Smalltalk, EDEN, MDL
- Networking**: TCP/IP, NFS, PC-NFS Netbeui, IPX/SPX, DECNet, DEC Pathworks, , DHCP, WINS.

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## Personal

- Born June 71, single, driving license, Belgian Nationality, authorized to work in the EU.
- Hobbies: running, Scuba diving, back packing, squash.
- Recent fairs: CAD/CAM, Pumps&Valves, Oil&Gas, IGUG2000, Achema, MS Backoffice,
- Subscriber to Chemical Engineering, PC Magazine, Offshore, CM Corporate.

*Business and personal references are available and will be furnished on request*

## Employers Recommendations



To whom it may concern

*Re: Steven Convens*

This is to confirm that the above was employed by Bechtel Ltd., on a short term assignment (September-December 99) to provide 3D CAD support cover during the peak workload. Steven was released at the end of the period as the workload decreased.

Mike Burt  
CAD and Computer Applications supervisor

CC:



**Bechtel International, Inc.**

P.O. Box 56  
Map Ta Phut Post Office  
Map Ta Phut, Rayong 21150, Thailand  
Tel : (66-38) 681776, 681983-6  
Fax : (66-38) 681-003



21 September 1999

**TO WHO IT MAY CONCERN**  
**Re. Mr. Steven Convens**

Mr. Steven Convens has been employed by Bechtel International, Inc. for approximately one year. During his tenure with Bechtel he has been working in a client's office in Thailand (with other Bechtel staff) maintaining, developing, and updating the PDS, 3D model and data for the client's new facility.

We have found Steven's work to be of a high quality. He uses his time well, is liked by other employees and is trustworthy.

Very truly,

A handwritten signature in black ink, appearing to read 'Dorian R. W. Nunn', written over a horizontal line.

.....  
Dorian R.W. Nunn  
Operations Manager

**CAP GEMINI BELGIUM**

Bessenveldstraat 19  
B-1831 Diegem  
Tel. 32 2 716 12 11  
Fax 32 2 716 12 19

De heer CONVENS Steven  
Hoeve van Gemp 5

B-2430 LAAKDAL

Diegem, 19 januari 1998

Geachte heer Convens,

Wegens een herstructurering binnen onze PDM Service Offering afdeling waren wij genoodzaakt een einde te stellen aan onze arbeidsovereenkomst.

Wij zullen ons zeker Uw zeer goede kennis van Process Industrie blijven herinneren, alsook Uw goede relaties met de engineers binnen de Process Industrie. Dit zullen wij graag aan Uw nieuwe opdrachtgever toelichten.

Wij wensen U veel succes toe bij het zoeken naar een nieuwe uitdaging.

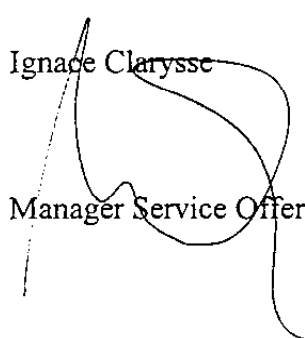
Met vriendelijke groeten,

Piet Vanderhaegen



Business Unit Manager Industry

Ignace Clarysse



Manager Service Offering PDM

Free translation by Steven Convens of a text drawn in the Dutch language

CAP GEMINI BELGIUM

Bessenveldstraat 19

B-1831 Diegem

Tel: 32 2 716 12 11

Fax: 32 2 716 12 19

Mr. Steven CONVENS

Hoeve van Gemp 5

B-2430 LAAKDAL

Diegem, 19 January 1998

Dear Mr. Convens,

Due to a reorganization within our PDM Service Offering, we are obliged to bring our collaboration to an end.

We will most certainly recollect your excellent knowledge of the Process industry, in addition to your good contact with the engineers in the Process Industry. We will be pleased to illustrate this to your new employer.

We wish you best of luck in your search for a new challenge.

Best Regards

Piet Vanderhaegen

Ignace Clarysse

Business Unit Manager Industry

Manager PDM Service Offering



# TECHNIPETROL

## Technipetrol S.p.A.

Società di Ingegneria e Costruzioni  
Capitale Sociale L. 47.000.000.000 i.v.

### Employers evaluation form

Surname of employee: Steven Convens      Address: Viale Castello della Magliana, 68  
Evaluation requested from: Giancarlo Boccardo      00148 Roma (Italy)  
Company: Technipetrol S.p.A.      Tel: +39 (0)6/ 6598 3410

#### To be completed by the employer

1. How well, how long, and in what capacity have you known the employee?  
S.C. was employed in the CAD dept (Rome) for 5 weeks (period Nov.-Dec 96)  
His primary scope was in knowledge on PDS environment.

2. How firm is the employees commitment to his field of working?

3. In comparison with other employees whom you have known at comparable stages of their careers, how would you rate the employee in the following areas? If you are unable to evaluate an area, please leave it blank.

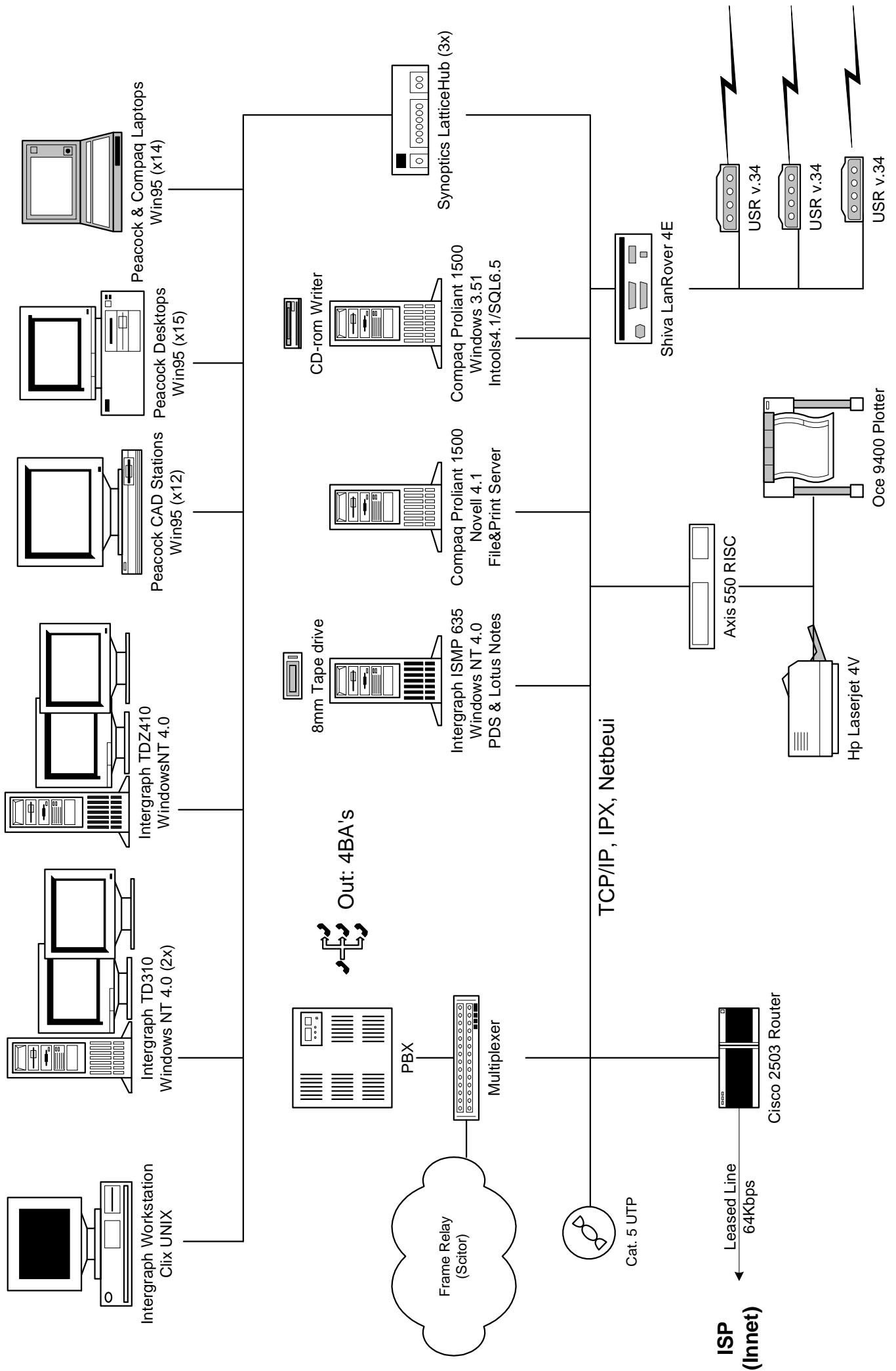
	Excellent	Very good	Average	Below average
Leadership -				
Initiative		X		
Seriousness of purpose		X		
Enthusiasm		X		
Adaptability -				
Maturity -				
Emotional stability -				
Public speaking		X		

4. Please cite some specific examples of how in your association with the employee, he has demonstrated the above qualities. Use a separate page, if necessary.

Signed: *G. Boccardo*      Title or position: CAD DEPT. MANAGER      Date: 20.12.96



# Network Layout technipetrol Geel



Miller Freeman, Inc.  
411 Borel Ave., Ste. 100  
San Mateo, CA 94402, USA

Telephone: (415) 358-9500  
Fax: (415) 358-9527

To Whom It May Concern,

Steven Convens worked as a temporary employee for our company during the summer of 1995. In the short time he was here, he left a very positive and lasting impression. He is an extremely sharp, motivated, and responsible worker with excellent communication skills. What impressed me and my colleagues most was his ability to adapt and excel in an unfamiliar (and, at times, unfriendly) environment. He will truly be missed here.

If I can offer additional insight into Steven's personality, or his abilities in the workplace, please contact me at the number above.

Sincerely,



Greg A. Rule  
Keyboard magazine  
Miller Freeman Publications

*DBMS Magazine*  
Miller Freeman, Inc.  
411 Borel Ave., Ste. 100  
San Mateo, CA 94402

*Telephone: (415) 358-9500*  
*Fax: (415) 358-9855*

September 21, 1995

To Whom It May Concern,

For several months this year, Steven Convenis was employed by Miller Freeman Inc. I interacted with him on a daily basis during this time, and was witness to his sharp intelligence, insatiable curiosity, and strong problem-solving abilities. I perceive Steven to be someone who thrives when constantly stimulated by new challenges. He is a motivated, self-starting individual who, given a place to thrive, will do honor to any organization.

Sincerely,



Clara H. Parkes  
Associate Editor  
*DBMS Magazine*  
cparkes@mfi.com

**Employer's recommendation form**

Surname of employee: Steven Convens                      Mailing address: Vidtstraat 63  
Reference requested from: Frans Van Evercooren                      9255 Buggenhout (Belgium)  
Company: Rapid Application Development Services Tel: 052/335628

**To be completed by the employer**

1. How well, how long, and what capacity have you know the employee?

.....  
...3 months.daily.....  
.....

2. How firm is the employee's commitment to his field of work?

.....  
...Steven has a very strong commitment to his job.....  
.....  
.....

3. In comparison with other employees whom you have known at comparable stages of their careers, how would you rate the student in the following areas? If you are unable to evaluate an area, please leave it blank.

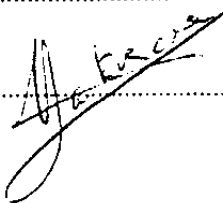
	Excellent	Very good	Average	Below average
Leadership				
Initiative		X		
Seriousness of purpose	X			
Enthusiasm		X		
Adaptability	X			
Maturity		X		
Emotional stability		X		
Public speaking			X	

4. Please cite some specific examples of how in your association with the employee, he has demonstrated the above qualities. Use a separate page, if necessary

.....  
.....  
He perfectly did what we expected him to do. ....

.....  
Without any knowledge of MS-Access and Crystal reports he managed to learn both programs very quickly and created the reports and queries we needed. The above rates are based on this.....

I would like to recommened Steven for a carreer in your company.....  
.....  
.....  
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.....  
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.....  
.....

Signed:  Title or position: computerprogrammer.....Date: 28/2/1996....

## ATTESTATION

The Managing Director of Groep T Institute of Technology in Leuven (Belgium) declares that

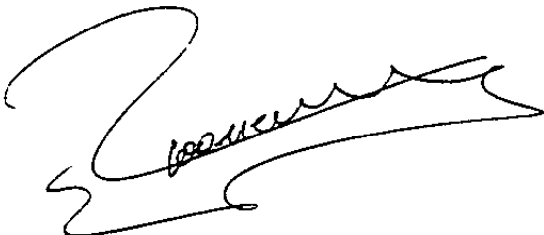
**Cónvens Steven L. G.**

born in Turnhout on 18 June 1971

has completed the final year of a programme leading to the degree of Industrial Engineer Chemistry (technical higher education of university standard) on 7th July 1995.

The education in industrial engineering consists of two years leading to the diploma of "kandidaat Industrieel Ingenieur" and two years leading to the degree of Industrial Engineer.

Leuven, 18th December 1995



Johan DE GRAEVE  
Managing Director

## Educators Recommendations

Educator's recommendation form

Surname of student: Convens Steven      Mailing address: Hoeve van Gemp 3  
 Reference requested from: Prof. C.BLOCK      2430 Laakdal  
 Institution: GROUP T Institute of Technology      Belgium

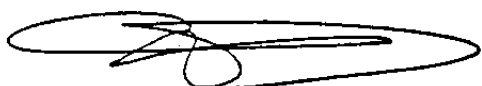
To be completed by the educator

- How well, how long, and what capacity have you know the student?  
 I have known Steven for two years as head of the Chemistry departement, teaching theoretical and pactical courses .....
- How firm is the student's commitment to his field of study?  
 He participated to the research activities of the Institute of Polymer and Material Engeneering at Loughborough, which is known as an institute with a very high level .....
- In comparison with other students whom you have known at comparable stages of their careers, how would you rate the student in the following areas? If you are unable to evaluate an area, please leave it blank.

	Excellent	Very good	Average	Below average
Leadership		x		
Initiative	x			
Seriousness of purpose		x		
Enthusiasm			x	
Adaptability			x	
Maturity		x		
Emotional stability		x		
Public speaking				

4. Please cite some specific examples of how in your association with the student, he has demonstrated the above qualities. Use a separate page, if necessary .....
- A critical mind and personal initiative typify his work in laboratory practicals.....
- He has wide range interests and shows much dedication and perseverance.....
- He is actively involved in the practical organization of student activities.....
- Steven himself took the initiative to contact the Californian Summerwork Experience .....

Signed: ..... Title or position: Prof.C.BLOCK..... Date:5 jan. 95



Head of Chemistry Departement  
 GROUP T Institute of Technolgy





Educator's recommendation form

Surname of student: **Convens Steven** Mailing address: **Hoeve van Gemp 3**  
 Reference requested from: **Prof. Y.PERSOONS** **2430 Laakdal**  
 Institution: **GROUP T Institute of Technology** **Belgium**

To be completed by the educator

- How well, how long, and what capacity have you know the student?  
 As head of the Communications departement of GROUP T I have known Steven Convens for four years as a representative of the Student's committee at GROUP T .....
- How firm is the student's commitment to his field of study?  
 Steven Convens is known toby his professors as a critical and enthusiastic student and he is very nterested in chemical engineering.....
- In comparison with other students whom you have known at comparable stages of their careers, how would you rate the student in the following areas? If you are unable to evaluate an area, please leave it blank.

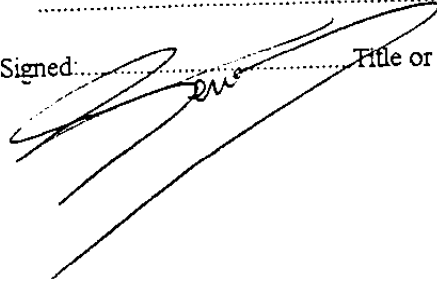
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Enthusiasm	X			
Adaptability		X		
Maturity		X		
Emotional stability		X		
Public speaking		X		

4. Please cite some specific examples of how in your association with the student, he has demonstrated the above qualities. Use a separate page, if necessary .....

Steven Convens has many qualities in the field of practical organization and he is also quite realistic.....

He is not onely interested in chemical engineering, but also in aspects of management and communication.....

As a representative of the student's committee he has shown his capacities as a leader. He is mature enough to deal with other people, to adapt his own plans to their opinions and still acieving the goals he originally put forward.....

Signed:  Title or position: **Prof. Y.PERSOONS** Date: **5 jan. 95**  
**Head of Communications Departement**  
**GROUP T Institute of Technology**



## Qualifications



# The Center for Professional Advancement

144 Tices Lane, East Brunswick, New Jersey USA 08816 • +1 732 238-1600

*Be it known that*

**STEVEN CONVENS**

*has satisfactorily completed  
the intensive short course*

**PIPING DESIGN, ANALYSIS & FABRICATION**

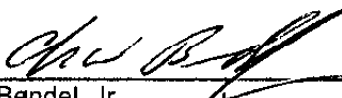
*and in testimony thereof is awarded this*

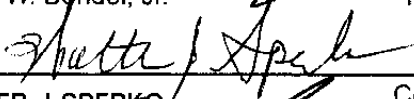
# *Certificate*

*In witness whereof I affix my signature*

*this 24th day of*      **MAY, 2000**

Continuing Education Units: 1.8

  
\_\_\_\_\_  
Charles W. Bendel, Jr.      President/CEO

  
\_\_\_\_\_  
WALTER J SPEKO      Course Director

  
\_\_\_\_\_  
LAWRENCE A LOZIUK      Co. Director



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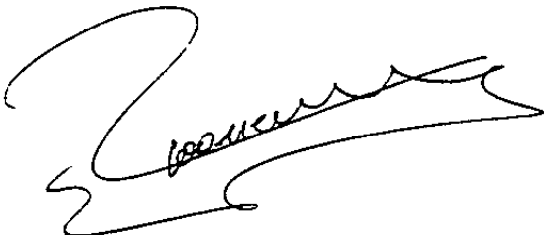
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Leuven, 18th December 1995



Johan DE GRAEVE  
Managing Director

Flemish Community – Kingdom of Belgium  
Ministry of the Flemish Community Department of Education  
**CATHOLIC INSTITUTE OF TECHNOLOGY**  
**ENGINEERING EDUCATION GROEP T – LEUVEN**  
**VUURKRUISENLAAAN 4 – 3000 LEUVEN**

Academic Year 1994 – 1995

Technical Higher Education of the long type with a full education course.

**DEPARTMENT OF: CHEMISTRY**

Organised in accordance with the law of July 7, 1970 regarding the general structure of the higher education, the law of February 18, 1977 regarding the organisation of the higher education and in particular the technical higher and agrarian higher education of the long type, the decree of October 23, 1991 regarding the institutions for higher education in the Flemish Community and the Royal Decree of September 20, 1978 for the implementation of article 2 §1, 2nd, 3rd and 4th of the above mentioned law of February 18, 1977.

The Exam commission certifies that **CONVENS STEVEN L.G.** born in Turnhout on June 18, 1971,

has passed

the final exam of the second cycle of the studies of industrial engineer comprising two academic years, the following optional courses included: Business administration – management: group work and group work information management, Seminary: English and French, measurement and control engineering in the chemical industry, Information Technology, Polymeric Chemistry, Chemical reactors, Computer-controlled designing of chemical processes, Industrial organic chemistry, Lab processing technology, Energy control in the Chemical Industry, Lab applied computerisation and Plant Engineering.

that he has presented a final paper about “The Use of an Emulsifier as Compatibiliser for the Enhancement of Toughness in Epoxy Blends”.

This certificate is granted as a token hereof and the degree of Industrial Engineer is granted.

Leuven, July 7, 1995

*The degree-holder,*

*The Chairman and the board of Examiners*  
(signed) five (5) signatures.

I, the undersigned, Emmanuel Vande Broek, sworn translator at the court of First Instance in Brussels, Belgium, do hereby declare that the above mentioned text is a truthful translation of a document originally drawn up in the Dutch language.  
Hoellaart, January 14, 2000

**EMMANUEL VANDE BROEK**  
**BEEDIJGD VERTALER E-S**  
**J BIESMANSSTRAAT 21**  
**1560 HOELLAART**

Flemish Community - Kingdom of Belgium  
Ministry of the Flemish Community Department of Education  
**CATHOLIC INSTITUTE OF TECHNOLOGY**  
**ENGINEERING EDUCATION GROEP T - LEUVEN**  
**VUURKRUISENLAAAN 4 - 3000 LEUVEN**

Academic Year 1992 - 1993

**Technical Higher Education of the long type with a full education course.**

Organised in accordance with the law of July 7, 1970 regarding the general structure of the higher education, the law of February 18, 1977 regarding the organisation of the higher education and in particular the technical higher and agrarian higher education of the long type, the decree of October 23, 1991 regarding the institutions for higher education in the Flemish Community and the Royal Decree of September 20, 1978 for the implementation of article 2 §1, 2nd, 3rd and 4th of the above mentioned law of February 18, 1977.

The Exam commission certifies that **CONVENS STEVEN L.G.**  
**born in Turnhout on June 18, 1971, has passed**

the final exam of the first cycle of the studies of industrial engineer comprising two academic years, the following optional courses included: Business Administration: Instructions and company visits, French and English.

This certificate is granted as a token hereof and the degree of Candidate in Industrial Engineering is granted.

Leuven, September 20, 1993

*The degree-holder,*

*The Chairman and the board of Examiners*  
(signed) nine (9) signatures.

Seal of the INSTITUTE OF TECHNOLOGY  
ENGINEERING EDUCATION GROEP T - LEUVEN

I, the undersigned, Emmanuel Vande Broek, sworn translator at the court of First Instance in Brussels, Belgium, do hereby declare that the above mentioned text is a truthful translation of a document originally drawn up in the Dutch language.  
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