

# CURRICULUM VITAE

## ROB LENSEN

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### ADDRESS

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### PERSONAL DATA

Date of birth: 10-03-1979

Nationality: Dutch

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### WORK EXPERIENCE

03/2009–now      Linde Gas, Operations Air Separation Units - Continental & Northern Europe, Ijmuiden, The Netherlands

*Function:* **Advanced Process Control Engineer**

Responsible for the roll out, implementation and support of advanced process control systems in Air Separation Units (ASU) in the region Continental & Northern Europe. These advanced process control systems consist of Linear Multivariable Predictive Control (LMPC), automatic load change of plants and automatic start-up of plants.

*Projects:*

- France, Montereau 2009: Supported Global MPC Specialist with the implementation of MPC on the ASU in Montereau.
- Germany, Leuna 2009: Optimised the Automatic Load Change on ASU Leuna7, together with some auto start-up sequences.
- Germany, Buna 2009/2010: Optimised the Automatic Load Change (ALC) on ASU Buna.
- Germany, Hamburg 2010: After DCS upgrade implemented LMPC on ASU, to improve Argon recovery and reduce energy consumption.
- Germany Buna 2011: Implementing LMPC on the Buna ASU, increase liquid production and increase product adaption.
- Italy, Milazzo 2011: Support local team to optimise Steam Reformer (HYCO) to cope with changes in feed products.
- The Netherlands, Ijmuiden Pipeline Management 2011: Implementing automatic pipeline control with multiple Air Separation Units (this project was awarded with a 2nd place for the Linde Gas Benelux innovation awards 2011)
- The Netherlands, Ijmuiden 2012: Implementation of LMPC on Air Separation Unit to reduce Oxygen spill and improve Argon recovery (500k € savings a year).
- Italy, Trieste 2012: Implementation of LMPC on Air Separation Unit. Improved Argon recovery by 5% .
- France, Porcheville 2013: Implementation of LMPC on Air Separation Unit.
- Italy, Bologna 2013: Implemented automatic start-up of Air Separation Unit (30% reduction of start-up time.)
- Switzerland, Basel 2014: Implemented LMPC on Air Separation Unit (2% Plant performance increase)

- 02/2008–02/2009 Fluor, Haarlem, The Netherlands  
*Function: **Process/Specialty Engineer I***  
 Worked on different projects as a Process Engineer. Engineering mainly consisted of equipment design (Pump, Heat exchangers and Vessels) and P&ID development.
- 02/2005–02/2008 Linde Gas Benelux, IJmuiden, The Netherlands  
*Function: **DCS System Specialist***  
 Responsible for all Process Control Systems of the four air separation plants. The process control systems consists of: H&B ContronicP, ABB Symphony and Siemens PCS7. The activities range from renewal of the DCS to improvements in process control.
- 11/2002–2004 Roomservice agency (University Twente), Enschede, The Netherlands  
*Function:* Development and maintenance of an online bookings system for housing of foreign students.
- 04/2001–2005 DiSc (University Twente), Enschede, The Netherlands  
*Function:* Lifeguard at the University indoor- and outdoor swimming pool.
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## COURSES

- 07/2015 Change First level management
- 06/2015 Six Sigma Greenbelt training (Theory certified, Practical not certified yet)
- 07/2014 Six sigma Basic Problem Solving (Greenbelt training), Linde Gas
- 02/2014 Six sigma Project Management training (Greenbelt training), Linde Gas
- 10/2012 Safety for Operational Supervisors, SCC (VCA-VOL), PBNA
- 09/2012 Advanced User Group training for APC Engineers Linde Gas
- 05/2012 User Group Training for iHistorian, Linde Gas
- 07/2010 Intensive German personal language course, Regina Coeli
- 09/2009 Advanced Process Control course for Air Separation Units, Linde Gas
- 09/2008 Communication Skills, Kennis van Zaken
- 05/2008 Process Basic Engineering Skills Course
- 03/2008 Project Execution Team Roles and Responsibilities
- 03/2007 Alarm Management Certified Professional, PAS
- 01/2007 Winterschool Projectmanagement, Kern Konsult
- 07/2006 NEN3140 course, Inrush
- 03/2006 Safety for Operational Supervisors SCC, EPCN
- 02/2006 RaPID Course, IPCOS Belgium
- 04/2005 SIMATIC PCS 7 systemcourse, Siemens Netherlands

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## EDUCATION

- 09/2000–02/2005 MSc. Chemical Engineering, specialisation Process Control, University Twente, Enschede, The Netherlands  
Diplomas obtained
- 08/1996–07/2000 BSc Chemical Engineering, specialisation Process Engineering, Fontys Hogescholen, Eindhoven, The Netherlands  
Diplomas obtained

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## INTERNSHIPS

- 08/2003–08/2004 University Twente, Research group Dynamics and Control of Processes, Enschede, The Netherlands  
*Research:* Development of a software tool for: 'multi variable constrained predictive control'
- 02/2000–07/2000 Host, Hengelo, The Netherlands  
*Research:* Optimisation of gas cleaning system for biogas
- 02/1999–06/1999 Unimills BV, Zwijndrecht, The Netherlands  
*Research:* Optimisation of catalyst regeneration with computer simulation
- 08/1998–02/1999 Schering Plough, Diosynth BV, Oss, The Netherlands  
*Research:* Improvement of the cleaning of reaction vessels

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## INTERESTS AND ACTIVITIES

- Hobbies: Badminton, Golf (HCP 21.3), diving, cooking
- Software knowledge: Office, Windows, Linux, FreeBSD, SAP, VMware ESXi, GE iHistorian
- DCS Experience: Siemens PCS7, ABB (Symphony, 800xA), Emerson DeltaV, Yokogawa Centum
- MPC Experience: Capstone MACSuite, Intellopt GMAX
- Program languages: C/C++, php and perl
- Other activities:
- 1.5 year chairman of the students participation council for the technical department of the Fontys Hogescholen in Eindhoven
  - Organisation international student badminton tournament
  - Organisation national badminton tournament
  - Treasurer badminton club B.V. Sloterveer
- Languages:
- Dutch: very good
  - English: good
  - German: good

Haarlem, August 2, 2015