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## MARC BERNAT I RALLO

Date of birth: October 28th, 1979  
Address: Vilalba dels Arcs 6 3r 1<sup>a</sup>  
08042 Barcelona, Spain  
Cell Phone +34 626 89 48 18  
e-mail: mbernat@kao.es



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### ➤ EDUCATION

**Institut Químic de Sarrià (IQS, Universitat Ramon Llull), Barcelona**

B.Sc. in Chemical Engineering (June 2002). Average of 80%.

**Institut Químic de Sarrià (IQS, Universitat Ramon Llull), Barcelona**

M.Sc. in Chemical Engineering (April 2004).

Thesis title: "A full-cycle model development for HCCI engines".

**Massachusetts Institute of Technology (MIT), Cambridge, MA**

Research on HCCI engines corresponding to the *M.Sc* project, during the period **August'02-August'03**, at MIT*ChemE.* department under the supervision of Professor William H.Green

reference: Professor William H.Green  
Dept. of Chem.Eng. - Massachusetts Institute of Technology  
e-mail: whgreen@mit.edu

**Institut Químic de Sarrià (IQS, Universitat Ramon Llull), Barcelona**

B.Sc. in Industrial Engineering (Last course pending).

### ➤ PUBLICATIONS

Yelvington, P.E., Bernat, M., Liput, S., Tester, J. W., Green, W.H. (2004)  
"Prediction of Performance Maps for Homogeneous-Charge Compression-Ignition Engines". *Combust.Sci. and Tech.*, 176, 1243-1282.

## ➤ PROFESSIONAL EXPERIENCE

### **Alp Pintures, SA**

July 2001 – September 2001

*Cooperation Student, R&D*

- Practices in the quality control department on the accelerated degradation of organic and inorganic pigments using the Q.U.V. technique.

### **Servei tècnic C.Bernat (familiar business)** Since 1996

Technical assistant

- Experience in repairing and installing domestic sound and image systems

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### **Decopak Europ S.A.**

Engineer, Technical Dpment. of Production June 2004 – December 2004

- Technical planification of production. Process improvement.

### **KAO Corporation S.A.**

Sales & Marketing Department

Since December 2004

- **Technical Assistance** to KAO Sales Force and to KAO Distributors.
- **Marketing of New products.**
- **Sales Manager.**

## ➤ SKILLS

- **Languages:** English, spoken and written fluently (First Certificate in English, 2000. One year stay in the USA), with daily use in current job. Catalan and Spanish (both native languages).
- **Programming languages:** Visual Basic, Matlab, Fortran, C.
- **Engineering software:** HYSYS, ANSYS.
- **Corporate Software:** SAP. Collaboration during the first implementation process.
- **CAD:** AutoCad.

## ➤ OTHERS

- Music studies (fourth course of piano). Knowledge and application of musical computing.
- Driving license B1.
- Sports: ski, surf, kite surf, jogging ...
- Absolute geographical mobility