

## Giacomo Po



## PERSONAL INFORMATIONS

**Nationality:** Italian, born in Modena on 01/01/1979

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## EDUCATION

- **2006-today Ph.D. Student in Mechanical Engineering**, University of California Los Angeles. Major Field: Solids and Structures. Minor Fields (expected): Applied Plasma Physics, MEMS/Nanotechnology. Current GPA: 4.0/4.0
- **1998-2003 M.S. in Mechanical Engineering**, University of Bologna (Italy) with maximum grades and distinction (100/100 *cum Laude*). Dissertation in Engine Dynamics and Controls with title “Design of new methods for misfire diagnosis in a high performance engine” (developed in collaboration with the company Ferrari s.p.a.). Advisor, Prof. D. Moro.
- **1993-1998 Science Lyceum** Wiligelmo, Modena (Italy). Graduated with maximum grades (60/60).

## PROFESSIONAL EXPERIENCE

- **2003-2006** Engineering position in the automotive industry in the company Ferrari s.p.a. (Italy) with specialization in engine management and experimentations. Areas of interest: ion current based detonation control, variable camshaft functionality and performances, mapping of air path, fuel path and torque structure, development of automatic calibration tools, misfire detection.
- **2001-2002** Lab Assistant at the Nano e Micro Mechanical Lab of the University of California, Los Angeles. Advisor, Prof. N.M. Ghoniem.

## TEACHING EXPERIENCE

- **2006-today Teaching assistant** University of California, Los Angeles. Conducted discussion sections for the class *Strength of Materials*.

PUBLICATIONS

- N. Cavina, G. Po, L. Poggio, D. Zecchetti, *Individual cylinder knock detection based on ion current sensing: correlation analysis*. Proc. of ASME Internal Combustion Engine Division 2006 Spring Technical Conference, May 8-10 2006, Aachen, Germany.
- N. Cavina, G. Po, L. Poggio, *Ion Current based Spark Advance Management for Maximum Torque Production and Knock Control*. Proc. of 8<sup>th</sup> biennial ASME Conference on Engineering Systems Design and Analysis, July 4-7 2006, Torino, Italy.

AWARDS

- **1998-2003 Diploma of the Collegio Superiore of Bologna University** ([www.collegio.unibo.it](http://www.collegio.unibo.it)) after five years of awarded full scholarship.
- **2001-2002 Overseas Scholarship**, one year exchange student at University of California, Los Angeles.

COMPUTER SKILLS

**Operative Systems:** Windows, MacOS X. **Programming:** Matlab & Simulink, C++ **Cad:** Solid Works, Solid Edge. **FEM:** Cosmos, Ansys. **Automotive:** Concerto, Inca.

SPOKEN LANGUAGES

Italian, English.

HOBBIES

Travels, hiking, soccer, piano, books.