b: July 2nd, 1990 n: Argentina p: 35.272.521N	**CURRICULUM VITAE** **SEBASTIAN MARTIN CURI**	p: +5411 4802 0424 m: +54911 4041 3693 e: sebascuri@gmail.com

SUMMARY

I would like to contribute to human progress and wellbeing by developing expertise in nano and micro-technology. I hope my technical abilities together with my leadership, interdisciplinary teamwork and hard-working skills will further help science improve every-day lives.

RESEARCH INTERESTS

I am particularly interested in fluid mechanics, nano and micro-technology and quantum mechanics, as I believe these are fertile areas for groundbreaking innovation and solutions for our current world challenges. I would like to further strengthen my knowledge in the area of biomedical engineering applying my mechanical engineering skills of design and simulation.

PROFESSIONAL EMPLOYMENT

- Feb '12 - Present **ITBA Computational Mechanics Assistant Researcher - ISN at MIT**
  Responsible for simulating delivery systems, rapid reconstitution packages and controlled release of repellents and pheromones doing Computational Fluid Dynamics and analysis of micro-membranes excited by ultrasound with the Finite Element Method.
- Jun '11 - Jan '12 **ITBA Computational Mechanics Assistant Researcher - INVAP**
  As part of a team, I was responsible for the meshing and simulation of large-scale aeromechanical engineering projects carried out by the National Institute of Aerospace Vehicles (INVAP). Specifically, I assessed the modeling characteristics of different meshing techniques used for fixation components of communication satellites arriving to the conclusion that Beam modeling was the most suitable technique to be used in this case. My recommendation has been executed since then.

EDUCATION

- 2009 – Present **ITBA Mechanical Engineering with specialization in Mecahtronics Degree**
  73% completeness with average 9.15 out of 10
  Expected date of graduation: Dec 2013
- 2007-2008 **International Baccalaureate (IB)**
  Total Score Diploma: 40 out of 45
- 1996-2008 **St Andrews Scotts School Baccalaureate in Sciences**
  Average: 8.40 out of 10

SKILLS & STRENGTHS

- Computers
  - Proficient in UGS Nx, Catia V5, Flow 3D, Risa 3D, MATLAB, Scilab
  - Familiarity with C Language, Mathematica, Maxima, ElmerGUI, NETLOGO
- Languages
  - Fluent in English and Spanish
  - Basic knowledge of French
- Teaching
  - ITBA Student Assistant in 31.21 Thermodynamics (Mar '12 – present)
  - Private Tutor Mathematics Admission Exam at University of St Andrews (Mar '08 – present)
  - St. Andrews Scotts School - Student Assistant in Mathematics Higher Level (Mar '08 - Dec '08)

HONORS/AWARDS

- Best IB results in Argentina Award (2008)
- Argentinean Mathematics Olympics – National and Provincial Top 10 Mention (2006)
- Mathematics and Physics Awards – St Andrew's Scotts School (2005-2006-2007-2008)
- Student Council Member (2004-2008)

HOBBIES

- Sports   Rugby, soccer, ski and golf
- Music   Piano player and member of Jazz & Latin band
- Comm Service   Hands-on visits to rural schools (2004 thru 2011), active donator to Bacigaluppo NGO
- Other   French and Peruvian cooking, Origami

REFERENCES

- Dr. Pablo Debenedetti   Vice Dean School of Engineering and Applied Science - Princeton University
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- Dr. Cecilia Smoglie   Director - Center for Research and Development of Energy - ITBA
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- Dr. Sebastián D'hers   Director - Computational Mechanics Center - ITBA
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