

Jorge Oguilve Araya

Curriculum Vitae

*Apartamentos Rancho Grande
Liberia, Guanacaste
Costa Rica*

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Education

2011 **Natural Sciences for Development Ph.D Student (current)**, *Instituto Tecnológico de Costa Rica*, Cartago, Costa Rica.

2002–2005 **Master of Engineering in Modern Manufacturing Systems (Cum Laude Recognition)**, *Instituto Tecnológico de Costa Rica*, Cartago, Costa Rica.

1995–2000 **Bachelor of Science in Mechanical Engineering**, *Universidad de Costa Rica*, Montes de Oca, Costa Rica.

1995–1997 **Private Pilot**, *Escuela Costarricense de Aviación*, Pavas, Costa Rica.

1993–1994 **High School Diploma**, *Colegios Científicos de Costa Rica*, Pérez Zeledón, Costa Rica.

Continuing Education Courses

2009 **General Intellectual Property Course**, *World Intellectual Property Organization (WIPO-OMPI)*, Geneva, Switzerland.
Online

2009 **Machine operations: Mill, Lathe, CNC, Cutting tools and Tolerancing**, *Instituto Nacional de Aprendizaje (INA)*, Liberia, Guanacaste y San José, Costa Rica.

2004–2005 **Certified Production and Inventory Management (CPIM)**, *American Production and Inventory Control Society (APICS)*, Chicago, IL, United States.

2003–2004 **Six Sigma Engineer**, *Baxter Internal Training*, Cartago, Costa Rica.

2003 **The 7 habits of highly effective people**, *Franklin Covey*, Cartago, Costa Rica.

2002 **Simulation using ARENA from Rockwell Software**, *Instituto Tecnológico de Costa Rica*, Cartago, Costa Rica.

2001 **Electrical Safety Standards**, *National Aeronautics and Space Administration (NASA)*, Lyndon B. Johnson Space Center, Houston, TX, United States.

1999

Introduction to programmable logic controllers (PLC), *Electrical Engineering School, Universidad de Costa Rica, Montes de Oca, Costa Rica.*

Experience

2006

Operations Director (current), *Ad Astra Rocket Company, Liberia, Guanacaste, Costa Rica.*

- o Responsible for Planning, Coordination and Execution of Engineering Projects involving Equipment and Component Manufacturers, External Consultants, Contractors and Customers;
- o Mechanical Design, Requirements Definition, Design Review, Integration and Validation of the VASIMR Rocket Mechanical and Thermal subsystems;
- o Environmental, Health and Safety Management of the Costa Rica Operations.

2006

Professor (current), *Universidad de Costa Rica, Liberia, Guanacaste, Costa Rica.*

- o Technical drawing course professor;
- o Vector Mechanics (Statics) course professor.

2001–2005

Product and Process Engineer, *Baxter Healthcare Corporation, Cartago, Costa Rica.*

- o Lead local automation projects with Internal Rates of Return (IRR) higher than 40 percent with a total investment value in excess of 13MM dollars;
- o Responsible for the production and uptime of machines in the automation area, achieving availability indicators higher than 98 percent.

2000–2001

Test Engineer, *Intel Corporation, Belén, Costa Rica.*

2000

International Co-op Intern, *Advanced Space Propulsion Lab at National Aeronautics and Space Administration (NASA), Houston, TX, United States.*

Languages

Spanish **Native.**

English **100% proficient.**

Computer skills

OS Ubuntu, Windows, Mac.

Programming Matlab.

Applications AutoCAD, ProEngineer, ProMechanica (FEA), Inventor, SolidWorks, WorkingModel, Windchill, ARENA, Statistical Packages.

Office Automation Microsoft Office, LibreOffice, LyX.

Project Management Microsoft Project.

Honors and recognitions

2011 **Member of the first Costa Rican Team to experience Zero Gravity conditions wearing the Costa Rica flag**, *National Aeronautics and Space Administration and Ad Astra Rocket Company*, Houston, TX, United States.

2011 **Keynote Speaker on the first nation-wide Industrial Engineering Conference**, *Universidad Jesús de Nazareth*, San Pedro Sula, Honduras.

2010 **Keynote Speaker during the inauguration activities of the Business Administration School**, *Universidad Nacional*, Heredia, Costa Rica.

2009 **Speaker on various universities: Universidad de Costa Rica, Instituto Tecnológico de Costa Rica, Universidad Interamericana de Costa Rica, Various Universities**, San José, Costa Rica.

2006 **Member of the Team that achieved the first 2 minutes plasma pulse and Steady State Operation on a VASIMR subsystem test bed in Costa Rica**, *Ad Astra Rocket Company*, Liberia, Guanacaste, Costa Rica.

2003 **Intern at the Baxter Healthcare Corporation Tech Center**, *Baxter Technical Center*, Round Lake, IL, United States.

2001 **Certificate of achievement for outstanding contribution to the implementation of the superconducting magnet project**, *Advanced Space Propulsion Laboratory, NASA Johnson Space Center*, Houston, TX, United States.

2000 **Technical Recognition for the preparation and execution of the recovery and remarking process which led to 610K dollars in savings**, *Intel Corporation*, Belén, Costa Rica.

1999 **Winner of the Intel Scholarship for Academic Excellence**, *Intel Corporation and Universidad de Costa Rica*, Belén y Montes de Oca, Costa Rica.

1998 **Sports Merit Recognition for obtaining the highest team ranking in the history of the Perez Zeledón Male Basketball team in National Games (Silver Medal)**, *Comité Cantonal de Deportes y Recreación de Pérez Zeledón*, Pérez Zeledón, Costa Rica.

Interests

- Technical Aerospace and Mechanical Engineering. I like to solve problems and look for innovative ways to improve products or processes in the engineering field.
- Sports and outdoors I like playing basketball, chess, soccer, ping pong and riding motorcycles. I also enjoy flying airplanes. I love the mountain environment and using the GPS.
- Academia I love teaching and keeping myself updated. I enjoy learning and trying new things all the time.
- Others I like to contribute to my community by volunteering.
- Reading I like to read about leadership, management, Costa Rican history, biographies, science fiction and any other interesting topics in the areas previously mentioned.

References

Available Upon Request.