

Matías Serer

Aiming to participate in the reduction of global environmental impact by collaborating in the research, development and operation of sustainable energy sources and consumption.

Birth Date: March 23, 1988

Nationality: Italian / Argentinian

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Work Experience

03/2014 – Present

Bariloche, Argentina

Nuclear Process Engineer

Comisión Nacional de Energía Atómica

Accomplishments

Development of the process engineering of the nuclear reactor CAREM25, first class III+ modular nuclear reactor. The CAREM25 is the first nuclear reactor integrally designed by CNEA for the generation of electrical power. Currently overseeing the setting up of the process equipment and the associated mechanical and civil engineering of the project and working on the optimization and improvement of the diverse security associated systems to fulfill the security requirements and achieve the inherent safety guaranteed by the project.

03/2011 – 01/2014

Bariloche, Argentina

Satellite Thermal Control Engineer

INVAP

Accomplishments

Involved in the development and integration of the thermal control engineering for the communication satellites "ARSAT-1" and "ARSAT-2". Organization and participation of the thermal test in the Vacuum Test of satellite "ARSAT-1". Currently these satellites play a major role in the communication infrastructure of Argentina.

04/2010 - 01/2011

Bahía Blanca, Argentina

Junior Process Engineer

DOW Chemical

Accomplishments

Participation in the design and improvement of the advanced control system and both plants optimizer for the Ethylene Crackers PBB-1 and PBB-2. Participation in the audit and implementing improvements protection system SIS LOPA and instrumentation during the turn-around of the Ethylene II plant. Optimization of the control system of water treatment plant.

Formal Education

2006 – 2011

Bahía Blanca, Argentina

Bachelor of Chemical Process Engineer

Universidad Nacional del Sur

2001 - 2006

Bahía Blanca, Argentina

Economics and Management Diploma

High School of economics, Universidad Nacional del Sur

Skills & Competences

- Creativity
- Thinking through first principles
- Team work
- Goal oriented working
- Computer Knowledge:
Python | Fortran | MATLAB | AspenPlus | HTRI | Thermal Desktop
- Critical Thinking

Achievements & Certificates

12/2013

Buenos Aires, Argentina

"Capital Semilla" Entrepreneur Program

Development and manufacture of solar collectors to heat water and indoor environments of rural and impoverished areas where the access to gas and electrical heating is not widely available. The final objective of the project was to develop a low cost solar collector design mainly made from recycled materials.

12/2015

Bariloche, Argentina

Process Risk Program Course

Instituto Tecnológico Buenos Aires (ITBA)

12/2005

First Certificate Examination

University of Cambridge

Languages

Spanish

Native language.

English

Reading/Writing: Advanced.

Listening/Speaking: Advanced.

Italian

(Currently studying at Dante Alighieri Institute, Bariloche.)

Reading/Writing: Basic.

Listening/Speaking: Basic.

French

Reading/Writing: Basic.

Listening/Speaking: Basic.

Interests

Sustainability | Environmental awareness | Reading
Trekking | Computer science | Mountaineering Outdoor
sports | Swimming | Music | Food