



Analytical Engineer Renewable Energy & Energy Efficiency



Nicolas Nath

Quartier Beigmau
64270, Salies De Béarn

34 years old

☎ **Skype : nicolasnath**

✉ n.nath@internatenergy.com

PROFESSIONAL WORK EXPERIENCE

Octobre 2005 /.. President – Internat Energy Solutions France Pau, France

Mission : Entrepreneur – managing director

Supervision of energy audits and renewable energy projects (engineering and feasibility of solar thermal, solar photovoltaic projects). Project management - Technical (energy flow and dimensioning), financial (ROI calculations and subsidy implementation) and environmental (CO₂ reductions). Project analysis providing energy efficiency and renewable energy solutions. Sales, marketing and team management.

2002/05 VP Engineering – R&D Engineer – Internat SAS Beijing, China

Mission : Implementation of the after sales service centre for construction machinery, Tianjin, and Shanghai

Management and organization of the engineering team – Customer training, maintenance system implementation, development of database for parts and tooling, creation of publicity and marketing material for Internat SAS.

Mission : Engineering analysis, conception and production of a double-shaft mixer

Design using Solidworks CAD 3-D of the mixer, manufacturing implementation management– training, assembly system development, creation of maintenance and utilization documentation.

2001/02 Project Engineer – General Electric Canada Toronto, Canada

Mission : project engineer – six sigma quality control

Project manager for six sigma projects at the Oakville factory (performance enhancements to the manufacturing line using six sigma methodology). Analysis and improvements to the quality control system for GE Canada manufacturing plant. Implementation of a PM (Preventive Maintenance) procedure for the manufacturing line.

RELEVANT PROFESSIONAL EDUCATION

2008 INES (National Institute of Solar Energy) – grid-connected photovoltaic system design Chambéry, France

Engineering and dimensioning of grid-tied photovoltaic systems, - advanced level - FCPV02

2007 Bilan Carbone® – Green House Gas Emissions Accounting ADEME, Nancy, France

Calculation of GHG emissions using the Bilan Carbone methodology to evaluate direct and indirect green house gas emissions of an activity at the level of a factory, municipality or region.

2006 Photon – Off-Grid Photovoltaic System Engineering ADEME, Sophia-Antipolis, France

Analysis and technical feasibility of off-grid, de-centralized renewable energy production using solar photovoltaic technology

2005 Large Scale Solar Thermal Systems Tecsol, Perpignan, France

Solar thermal dimensioning, engineering drawings, return on investment calculations and environmental impact

EDUCATION

1995/00 Bachelor of Science in Mechanical Engineering Queen's University, Kingston, Ontario Canada

Multi-disciplinary engineering program (common general core), specialized in mechanical systems (structural calculations, Heat transfer, fluid mechanics) and material science (polymers, metallurgy, composites),

1998/99 Bachelor of Arts in Mathematics Queen's University, Kingston, Ontario, Canada

Mathematical modeling and statistical analysis

OTHER SKILLS

- Strong International work experience having lived and worked in North America, Asia and Europe
- Trained in a wide range of Renewable Energy Software Retscreen., Pléiade + Comfie, SOLO, SimSol, WindPro, PVSYST, TSOL
- Professional skills and experience in working with individuals from other countries and extensive travel
- Ability to communicate in English, French, Hindi and Chinese (Mandarin)

INTERESTS

Passionate about renewable energy and energy efficiency
Philosophy, literature, language and cultural exchange
Nature, sailing windsurfing, tennis and basketball