

# Sândina Ponte

Green Corporate Real Estate Manager

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## Summary

Industrial engineer with 13 years of experience in Energy Efficiency, EHS, Project Management, Quality, Lean manufacturing, Simulation, and TOC. I am passionate about the Environment and Behavior based Safety. Currently the Green Corporate Real Estate manager for ABB USA.

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## Experience

### **Business Unit HSE Specialist at ABB**

November 2011 - Present

- Developed the Energy Efficiency initiative for BU Transformers.
- Managed Energy Efficiency pilot projects (USA, China, Sweden and India) with savings ranging from ¼ to 1.5 MUSD / year.
- Conducted Energy Efficiency audits in conjunction with the local University's Industrial Assessment Center (IAC)
- Collaborated in the yearly HSE plan for BU Transformers
- Reviewed HSE data monthly, analyzed and proposed improvement actions.
- Prepared incident reports and supported local factories in identifying root causes and corrective actions.
- Issued safety alerts and followed up on the implementation of corrective actions to ensure that the same incidents were not repeated.
- Conducted HSE audits according to the BU yearly audit plan and in coordination with Group Function and Country HSE audits. Prepared the audit report and conducted quarterly review meetings with the PGUs to monitor the gap closure.
- Developed a process for monitoring the closure of audit findings, now a standard for BU Transformers.
- Developed SharePoint sites (Division and BU levels) for lessons learned assurance, audit process monitoring, incident report sharing, and KPI data collection.
- Developed new HSE technical standards for the BU and updated existing standards to ensure state of the art solutions.
- Trained and coached local HSE advisors on HSE topics, i.e. audit process, incident investigation, risk assessments, and energy efficiency.
- Reviewed the HSE resources in both Turkey and Brazil and proposed new models to better manage HSE at country level.
- Issued BU level HSE newsletters and upkeep of the BU HSE web portal.
- Reviewed and approved investments to ensure HSE hazards and risks were properly identified and the appropriate controls specified.

- Developed a training tool that provided HSE training requirements based on employment category, function, and high risk tasks involved.

### **Occupational Health and Safety (OHS) Advisor at ABB**

September 2009 - October 2011 (2 years 1 month)

- Prepared the yearly OHS work plan for Product Groups (PG) Distribution and DRY transformers.
- Analyzed OHS data across the PG, identified trends, and made proposals to prevent reoccurrence of incidents.
- Participated in incident investigations in order to identify the root causes and proposed corrective actions.
- Collaborated with regional, country and local OHS Advisors, and equipment specialists in OHS projects.
- Directed and supported local OHS advisors in 21 factories world wide.
- Provided advice, training and coaching in hazard controls, method provisions, and processes to eliminate/reduce health and safety incidents to process engineers and OHS advisors worldwide.
- Reviewed investments so that hazards and risks for HSE were properly identified and the appropriate controls specified to meet highest ABB and industry standards. Investments of 20 - 30 MUSD annually.
- Ensured that the OHS standards across the Product Groups were uniform, consistent, and current with state of the art technologies.
- Identified, developed and approved best practices in cooperation with Group OHS.
- Developed a standard OHS audit report for the BU Transformers.
- Conducted OHS factory Audits on regular intervals in all 21 plants worldwide (Australia, Brazil, Canada, China, Egypt, India, Korea, Poland, Saudi Arabia, Singapore, Spain, New Zealand, Vietnam, USA). Made reports and followed up corrective actions to close gaps.
- Issued a monthly OHS newsletter to all 21 factories.

### **Occupational Health and Safety (OHS) Advisor 50% resource at ABB Inc.**

February 2008 - September 2009 (1 year 7 months)

- Benchmarked the manufacturing processes in Ireland, China and US in order to map the hazards and risks present in the manufacturing of distribution transformers.
- Studied the incident data from 18 plants to determine where incidents were taking place, what body parts were affected, probability and severity of the incidents to prioritize key hazards and risks in the value chain.
- Studied existing standards within ABB and industry standards to develop OHS method provisions specific to the hazards and risk associated with the manufacturing of transformers that became global ABB standards.
- Led 6 OHS training sessions for 50+ people in various countries including China, Sweden, Brazil, India, Poland and Spain in 4 months.
- Coordinated the machine upgrade pilots in 5 locations: Core Cutting Line in Ireland and Poland. Coil Winding Machines in US, Poland and Canada.
- Provided technical support for the OHS instruction implementation to the factories in DTR and DRY (21 factories).
- Reviewed capital investment applications prior to being submitted to ensure OHS compliance.

- Developed a standard process for collecting, reviewing, approving and sharing Best Practices by creating a “Book of Best Practices” that became available online.
- Worked on redesigning and maintaining the BU OHS website with web master in the USA.
- Supported 18 factories worldwide following incidents.

### **Strategic Projects Engineer at ABB**

September 2005 - September 2009 (4 years)

- Project Manager for capital projects ranging from \$1MUSD to \$4MUSD.
- Monitored all capital projects within the factory to ensure deadlines and budget constraints were met.
- Justified the purchase of new equipment through a capability study that allowed the factory to increase its daily output and to introduce a new product line of larger transformers.
- Wrote the specification for several new machines capable of producing Large 3 Phase Distribution Transformers: Core Wrapping Machine, 300 Tons Core Press, Core Bending Machine, High Voltage Coil Winding Machine, 1/4” CNC Folding Machine, Fully Automated Punching/Bending Line for the transformer’s cabinetry, and a Fin Folding Production Line.
- Led the negotiation process with international suppliers, participated in the debugging and final acceptance of the equipment overseas to ensure quality, throughput and safety.
- Rearranged the factory layout to accommodate the new equipment, improve flow, and ensure safety.
- Coordinated the installation and debugging phases of each machine so that the new increase in capacity could be achieved within our set deadline.
- Completely refurbished two 30 year old furnaces to increase reliability, safety, energy efficiency and data monitoring.
- Patented the automation of the Unicore Machine collection of laminations in 2009.
- Process Engineer for several areas of the factory where maintenance work was monitored, method provisions and Lock out Tag Out instructions developed, operator training conducted.
- Cost Savings Projects:
  - 2008: Saved the company \$686,400 by replacing gas burning burners with energy efficient burners.
  - 2008: Saved the company \$97,000 by improving material flow improvement (Kaizen event)
  - 2007: Saved the company \$268K on a make vs. buy project.
  - 2007: Saved the company \$150K on a leak reduction project.

### **Process Engineer at ABB**

May 2004 - August 2005 (1 year 3 months)

- Improved process flow by developing simulation models.
- Created process maps to detect non value added activities.
- Improved uptime in different sections by upgrading equipment, creating backup plans, and implementing 5S.
- Worked on several safety engineering projects.
- Saved the company \$50,000.00/year by improving equipment uptime.
- Saved the company 0.25 million in various cost out projects.

## **Research Assistant at University of Missouri**

August 2003 - May 2004 (9 months)

Industrial Engineering Research

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## Education

### **University of Missouri-Columbia, College of Engineering**

MS, Energy Efficiency and Industrial Engineering, 2010 - 2011

### **University of Missouri-Columbia College of Engineering**

BS, Industrial and Manufacturing Systems Engineering, 2000 - 2003

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## Honors and Awards

Industrial Assessment Centers Train Future Energy-Savvy Engineers

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[Contact Sândina on LinkedIn](#)