

## **ALEXANDER GUERRERO SERRATO**

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US Status: Permanent Resident. Right now working in Colombia, but with no problem of relocalization in USA

### **EDUCATION**

#### **MS Mechanical Engineering / Paper Science**

GPA 3.71/4.00 July 2008

The George W. Woodruff School of Mechanical Engineering

The Georgia Institute of Technology, Atlanta, Georgia

Thesis: Investigation of Wet Paper Cohesive Properties

#### **B.S. Mechanical Engineering**

GPA 3.10/4.00 March 1997

Los Andes University, Bogota, Colombia

### **WORK EXPERIENCE**

#### **The Georgia Institute of Technology, Atlanta, Georgia, USA**

##### **Graduate Research Assistant, Institute of Paper Science and Technology, (August 2006 – July 2008)**

- Determine the cohesive strength of laboratory prepared paper.
- Evaluate how the cohesive energy of the paper changes, depending on different mechanical and chemical treatments done to the pulp suspension.

##### **Smurfit Kappa Carton de Colombia, Cali, Colombia, South America**

##### **Process Engineer (Photocopy and Printing P.M.) (February 2002 – Present)**

- Develop and control programs related to the safety of the plant operators.
- Help as a link between the supervisors and operators with the plant administration, so everybody works keeping the same goal on mind.
- Reduce the amount of rejected paper, through continuously monitoring the daily production, and developing projects that improves the paper quality.
- Coordinate the installation of the web breaking detection device system to help reduce the loss time due to paper breaks (March 2006).
- Coordinate with the chemical suppliers, the evaluation of new chemicals (retention and sizing systems), dosage points, operator's capacitation.
- Coordinate installation of metering size press (Optisizer) to expand the product possibilities of the machine (August 2005).

##### **Smurfit Kappa Carton de Colombia, Cali, Colombia, South America**

##### **Process Engineer (Sack, Liner and Corrugated Medium P.M.) (December 2000 – February 2002)**

- In addition to the typical tasks (mentioned above):
- Increase by 10% the paper machine capacity (from 270 to 300 Ton/Day), installing a head box screen, changing pipe lines and pumps.
- Increase the by 20% the paper machine capacity (from 300 to 360), by the modification of the vapor system, installing new thermocompresors and increasing the amount and pressure of steam that the paper machine could handle.
- Participate in the elimination of the old turbine transmission system, replaced by electric motors and drives.
- Participate in the installation of a screw press, in order to improve the sack paper quality, so the same properties could be achieved with 10% less fiber.

##### **Smurfit Kappa Carton de Colombia, Cali, Colombia, South America**

##### **Maintenance Engineer (Sack, Liner and Corrugated Medium Paper Machine) (March 1998 – December 2000)**

- Coordinate the work of the mechanical operators to reduce the losses (in time and paper quality).
- Participate in the implementation of vibration monitoring system to increase the reliability of the paper machine.

### **SKILLS**

- Enjoy team work as well as working alone.
- Excellent relationship with partners (either in upper or lower levels).
- Effective in finding creative solutions during trouble times.
- Good in finding the root cause of the problems.