

## **Mauricio Ruiz - Product Development Manager**

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Providing creative solutions in the Consumer, Medical and Personal Care markets. I help to identify organizational needs to improve revenue and customer satisfaction in areas such as technical service and new product development.

### **WORK EXPERIENCE**

#### **North Carolina State University**

**January 2024 to Date**

Research Assistant at the Nonwovens Institute. Research project: Online Measurement of ODF and Web Uniformity. Fiber and Polymer Science PhD student.

#### **Berry Global SLP, Mexico**

**2011-2023**

##### **Research and Development Manager**

- Increased revenue by \$60 MM usd by leading the new product programs for Mexico and Latin America in polypropylene nonwoven fabrics and polyethylene films for Air Filtration, Personal Care, Health Care, Automotive, and Agriculture.
- Achieved earnings above \$1 MM usd in the first launch year on 7 programs.
- Achieved an ROI of 2.3 years on Capital Equipment for 3 production lines (soft bond, extrusion coating, and filtration media) lowering the time to market by half.
- Issued 5 patent applications to protect and defend proprietary technology.
- Coached and developed 8 lab analysts, 21 operators, and 5 Process Engineers, eliminating quality claims and resulting in the promotion of 2 supervisors.

#### **Grupo Prodensa SLP, Mexico**

**2010-2011**

##### **Project Manager**

- Coordination of a multi-task group (8 direct reports) for a successful START-UP of 4 automotive companies: Flexitech, Hussey Copper, Caparo & Dymos, owning the Process Management on services for Health and Safety, Regulatory, Account and Finances, Human Resources, and Logistics.

#### **3M Company, Mexico**

**1992-2010**

##### **Research and Development Manager**

- Increased the 5-year New Product Sales from 8% to 25% in the subsidiary (\$23 MM dlls/year) through new product and technology introduction. 8 direct reports.
- Achieved an average Return of investment of 1.8 years on a new lab construction by building a new product pipeline of 3 projects per month for diaper fasteners, scouring pads, and pressure sensitive adhesive tapes.
- Supervised, coached, and developed 8 scientists resulting in the promotion into a manager position and two supervisors.

##### ***Quality and Research and Development Supervisor***

- Achieved 5.3% of cost savings through dual sourcing raw material qualification in the fields of Pharmaceutical and Medical Devices. Acquisition and training of advanced analytical equipment such as FTIR, DSC, TGA, DMA, HPLC-MS.

##### ***International Technical Service***

- Achieved \$1.4MM usd/yr new sales for Specialty Chemicals: Scotchgard® protector for paper, leather, and textiles in Latin America.
- Achieved \$730K usd/yr new sales for the Interam® automotive catalytic converter mat and screen-printed stickers at Ford Motor Company.

**Procter & Gamble**

**1990-1992**

**Product Control Engineer**

- Improved productivity by 8% for new “Safety Gums” Crest toothpaste process.
- Improved productivity by 4.5% in the Ariel Powder Detergent drying process by developing a train-the-trainer system for 12 union workers (3 shifts).

**EDUCATION**

- PhD in Polymer Science – *North Carolina State University, Raleigh NC. **Student and Research Assistant**, Enrolled, Jan 2024.*
- Master’s degree, major in Materials for Manufacturing - *ITESM, Mexico City. **Fields of study:** Metallurgy, Statistical Predictive Analysis, PLC Programming.*
- Chemical Engineering Cum Laude - *Facultad de Quimica, UNAM, Mexico City **Major in Polymer Chemistry.** MTBE additive for automotive gasoline formulations.*

**SKILLS**

- Polymer Science, Minitab, JDEdwards, Quality Windows Statistics, Power Bi.

**COURSES**

- *“Flexible Packaging: Blown and Cast Film Extrusion, Extrusion Coating”* – University of Wisconsin / TAPPI.
- *“Nonwovens and Polymer Science”* – North Carolina State University.
- *“Science & Cooking: physics & chemistry”* - edX course from Harvard University.

**RECOGNITIONS**

- **Green Belt.** “Gel reduction in a LDPE / EVA coextrusion cast film line”.
- **7 New Product Development Awards** \$1MM USD in first year of business.
- **5 patent applications/1 granted:** “Hook forming with micro replicated belt and capping”, “Improved crop protection fabric”, “Process to produce an enhanced MERV-13 filter media”, “Abrasive cleaning agent” and “Cleaning agent with aroma”.
- **University of Wisconsin** – Stevens Point at Wausau: “Flexible Packaging: Blown and Cast Film Extrusion Coating”.
- **North Carolina State University:** “Nonwovens and Polymer Science”.