

# Maria Guadalupe Lopez

## Electromechanical Engineer

Experienced CAD Design Engineer with broad and deep knowledge of all stages of CAD design and execution, worked with high volume product, large assemblies, handle simultaneous projects to completion by or before deadline and within customer budget. Detail oriented, communicate with project managers, engineers, vendors and clients to understand needs and requirements for a new product or mechanical system.



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Tijuana, Baja California,  
México



Website



github.com/LupitaLopezg

## SKILLS

Proe/Creo proficient

Autocad

Geometric Dimension &  
Tolerancing

ANSI/ASME Y14.5

Data Managment

Problem solving

Accuracy and attention  
to detail

## LANGUAGES

English

*Full Professional Proficiency*

Spanish

*Native or Bilingual Proficiency*

## INTERESTS

Basquetball

Drawing & Painting

Community involvement

Learning languages

## EXPERIENCE

### Sr. Layout Design Engineer

TURBOTEC (A solar Turbines Inc. subsidiary)

10/2004 - 03/2008

Tijuana, Baja California, México

#### Achievements/Tasks

- Hired to start a new design layout group to support a counterpart from Solar Turbines Inc.
- Team Lead oversees 4 members responsible of applying CAD design changes for the compressor gas turbine section.
- 3D model creation and applying design changes to the 2D drawings, determine and develop solutions for design, drafting and modeling projects.
- Adapting received data for modeling and drawing creation of compressor components.

### Sr. Mechanical Design Engineer

SONY ELECTRONICS

09/1997 - 10/2004

Tijuana, Baja California, México

#### Achievements/Tasks

- Team lead of mechanical design for manufacturing support; computer monitor and TV división in Tijuana and Mexicali B.C., México. Ensure vendors in México and USA meet design requirements, specifications and technical standards.
- Redesign of a bracket support for electronic PCB board, reliability testings, a cross-functional work with other departments in order to comply with both company and client quality standards, in order to achieve the goal of manufacturing a finished product of ~2M/Year.
- Redesign of a cable holder, prototyping, consumer standard testing and design approval for large volume production ~1.4k/hr.
- Reduce the number of monitor holders from 4 to 3, performing reliability test according to design and manufacturing quality standards, with an estimated \$300k annual savings.

### Mechanical Engineer

SAMSUNG ELECTRONICS

01/1996 - 09/1997

#### Achievements/Tasks

- Develop local parts for 15", 20" and 27" TV packaging and prints within México and USA.
- New model part approval for mass production ~1.3M/Year.
- Comply with Client requirements, adapting engineering specifications for local production.

## VOLUNTEER WORK, COMMUNITY INVOLVEMENT

Otay Vista Community, Tijuana, Baja California (10/2015 - Presente)

*Leading the instalation of a 3937' electric fence and rehabilitation of 62 public lighting lamps that benefited 460 families.*

## EDUCATION

### MS - Design of Manufacturing processes

Cetys University

10/2012

Tijuana, Baja California México

### BS- Electromechanical Engineer

Instituto Tecnológico de Tijuana

01/1996

Tijuana, Baja California México