

# Ruperto Navarro

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## Mechanical Design

Experienced in:

New Model Documentation Support | Plastic and Metal Parts Design | Production Support (Sustaining)

## Summary

Results-driven Mechanical Designer with experience in developing plastic and metal components. Optimizing mechanical designs and ensuring high-quality manufacturing solutions. A fast learner with a collaborative, objective-driven mindset, capable of working under strict deadlines in multicultural environments.

## Professional Experience

Broan Nutone. 09- 2022 - 07-2025

### Design Support ( Kitchen Range Hood Appliances)

"Provided mechanical design support for new product development projects, facilitating a smooth transition into the manufacturing site

Conducting engineering documentation ( BOM updates, drawing updates from redlines, prototype assemblies, product testing.

Redesigned sheet metal parts to enhance robustness and durability.

Plantronics/Poly (04/2004 - 11/2019)

**Mechanical Design (Headsets & Audio Devices)**

Mechanical design for new product development projects, with high-performance solutions.

Defined mechanical architecture, and conducted tolerance analysis (GD&T) for precision engineering.

Designed plastic and metal injection-molded parts, ensuring manufacturability and cost efficiency.

Conducted design reviews, cost analysis, and collaborated with cross-functional teams to optimize product performance.

Managed BOM creation, injection mold design considerations, and lifecycle analysis.

Sony (09/1998 - 04/2004)

**Mechanical Design Engineer (Televisions, CRT Technology)**

Designed and optimized mechanical parts for television manufacturing, ensuring compliance with industry standards.

Served as a liaison engineer between design and manufacturing teams to facilitate smooth product transitions.

Led cost-down initiatives and value analysis to enhance profitability without compromising quality.

Worked closely with tool suppliers for injection mold design considerations and approvals.

Provided engineering support for production line troubleshooting and quality improvements.

**Education**

**B.S. Electro-Mechanical Engineering** – Instituto Tecnológico de Tijuana

## Certifications & Training

GD&T (Tolerancing for Design and Productivity) – @ UCSD

## Technical Skills

**Mechanical Drafting Software :** CREO Parametric , WindChill , SolidWorks.

**Manufacturing Processes:** Injection Molding, Metal Fabrication, Cost Optimization

## Professional Interests

Systems Engineering | 3D Modeling | Mechanical Design | Product Development | Manufacturing Optimization | Engineering Simulation