

President / Principal

Sound Resolution in Niles, MI

March 2013 - present

- Provide consulting and design services to manufacturers with specialization in audio-related products.
- Experience in all facets of:
 - Audio system design and configuration
 - Product rationalization
 - Product specification
 - Project management
 - New product development
 - Design engineering (electrical, acoustic and mechanical)
 - Design for manufacturability
 - Regulatory compliance
 - Factory integration
 - Lean Six Sigma
 - Mature product maintenance / sustaining
- Direct experience in Professional Audio, Installed Sound, High-end Home Theatre, and Consumer Electronics.

We respect the intellectual property and confidential nature of our relationships with clients and, therefore, we do not publish a list of customers or projects.

Director of Engineering, Luxury Audio

Harman International Inc.¹

November 2008 – March 2013

Responsible for new product development / design engineering for Lexicon[®], Mark Levinson[®] and Revel[®] products in consumer markets. Was responsible for all aspects of international safety and regulatory compliance, all departmental budgeting, staffing and corporate coordination of shared technologies and collaboration as appropriate.

Significant projects included:

- Mark Levinson[®] Reference Preamplifier No52
- Revel[®] Performa3 loudspeaker series
- Lexicon[®] DD8 amplifier
- Lexicon[®] BD-30 BluRay player

Vice President, Strategic Quality (acting)

Harman International Inc.¹

July 2006 – November 2008

Led a focused, high-performance cross-functional team to significantly improve delivered quality, yield and efficiency.

Developed and implemented a Business Excellence program which combined the tools and strategies of Lean Manufacturing and Six Sigma (including certification) across all functional areas of the business.

Directed and delivered \$2M annualized efficiency improvement through Harman® STEP Change program.

Continued to be responsible for all aspects of international safety and regulatory compliance for Crown® branded products.

Product Development Manager

Harman International Inc.¹

2001 – July 2006

Led multiple design teams to complete new product development and product improvement projects.

Led development of the following Crown product lines:

- XLS Amplifiers (series 1)
- XLS Amplifiers (series 2)
- Xs Amplifiers
- CCA Commercial Amplifiers and Mixers
- XM²-enabled Commercial Integrated Amplifier
- Second-generation CTs multi-channel products

Led development of JBL A6000GTi and A3000GTi competition amplifiers.

Responsible for safety / regulatory compliance department which ensures all products are designed, tested, certified and delivered to meet the international safety, regulatory and energy requirements in their respective markets.

Core team member of:

- SAP integration
- Omnify (PLM) integration
- PTC's Windchill (PDM) conversion
- CCC certification of four factories and dozens of products for legal importation into China

Integration Engineer

Crown International

1999 – 2001

As a member of a new product development team, Bob acted as the bridge between design engineering and operations to ensure the smooth integration of designs to production.

Defined, assembled and operated an engineering prototype lab with SMT screen printing, SMT pick and place, and reflow soldering oven.

Microphone Design Engineer

Crown International

November 1998 – 1999

Microphone Design Engineer

Electro-Voice³

September 1994 – October 1998

Collaborative engineer on new product development projects including:

- Second-generation N/DYM microphones
- RE2000 & RE1000 true-condenser microphones
- Several goose-neck and lavalier products

Fully developed N/D868 kick-drum mic from initial concept to production. Participated in several new-product launch activities internationally. Integrated TELEX wireless systems with EV transducers immediately after merger. Acted as interim Network Administrator for eight months.

Engineering Technician

Electro-Voice

May 1985 – August 1994

Worked in the Military / Aviation department developing microphones, earphones and associated electronics. Extensive prototype work including circuit board, metal and plastic fabrication using a plethora of machine tools.

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