

BRANDON MUNDELL

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PRODUCT DESIGN ENGINEER

Experienced product designer with deep expertise in conceptualizing, engineering, and launching award-winning architectural and residential lighting solutions. Skilled in designing sheet metal, extruded aluminum, die-cast, and injection-molded components, with advanced proficiency in CAD modeling, prototype development, and production documentation. Recognized with multiple industry awards including IES Progress Report, Good Design Award, and Product Innovation Awards. Demonstrated a consistent record of performance across leading lighting manufacturers and excelled in bridging industrial design with engineering precision.

AREAS OF EXPERTISE

Market & Competitive Analysis | Requirements Definition | Concept Sketching | Product Renderings | Prototyping & Finishing | Product Testing & Performance Evaluation | Die-Casting | Aluminum Extrusion | Injection Molding | Metal Stamping | Metal Spinning | Fabrication | Manufacturing Documentation | Cost Analysis & Value Engineering | DFM/DFA Analysis | DFMEA | BOM Management | Production Support | Technical Documentation | Voice of Customer (VoC) Integration

SOFTWARE EXPERIENCE

Solidworks | PTC Creo | Windchill PLM | AutoCAD | Oracle MRP | Adobe Creative Suite | MS Office

PROFESSIONAL EXPERIENCE

INDIANA LIGHTWORKS, INDIANAPOLIS, INDIANA

Specification Consultant, 6/2025 - *PRESENT*

- Strengthened product positioning by engaging directly with architectural and engineering firms to understand specification trends, customer needs, and competitive dynamics.
- Provided feedback to internal product teams to inform roadmap decisions and lifecycle improvements.

ACUITY BRANDS LIGHTING, INDIANAPOLIS, INDIANA

Senior Design Engineer, 2/2015 - 4/2025

- Led the end-to-end design and development of lighting platforms from early concept through production release, sustaining engineering, and iterative enhancements.
- Partnered with product management, marketing, engineering, and operations to define requirements, evaluate tradeoffs, and support go-to-market execution.
- Conceptualized, developed, and engineered new products with components designed for sheet metal stamping, extruded aluminum, die-casting, and injection-molding processes.
- Developed CAD models, conceptual renderings, and production documentation to support project milestones.
- Built prototypes, fabricated models, and coordinated with internal testing labs to verify product performance and adherence to customer needs and specifications.
- Performed DFM/DFA and DFMEA to reduce risk and ensure manufacturability and product durability across lifecycle stages.
- Managed product data, BOMs, and change processes within PLM/MRP systems to maintain accuracy and traceability.
- Conducted cost analysis and value engineering to improve product margins and lifecycle profitability.
- Authored technical documentation, installation guides, and internal support materials to ensure smooth adoption and long-term product success.
- Supported sustaining engineering efforts addressing field issues, quality improvements, and component transitions.

PRODUCT DESIGN ACCOMPLISHMENTS

- 2025 IES Progress Report Selection for Gotham® IVO™ Deep Regress Downlights.
- 2025 Launch of Gotham® IVO™ Deep Regress Downlights.
- Led design and development of Gotham® IVO™ Deep Regress downlight modules.
- Invented patent-pending wire-form retention springs for Gotham® IVO™ Deep Regress Downlights.
- 2025 Product Innovation Award for Gotham® IVO™ Shallow Recessed Downlights.
- 2024 Good Design Award for Gotham® IVO™ Shallow Recessed Downlights.
- 2024 IES Progress Report Selection for Gotham® IVO™ Shallow Recessed Downlights.
- 2024 LEDs Magazine Brightstar Award for Gotham® IVO™ Shallow Recessed Downlights.
- 2018 Architectural SSL Magazine Product Innovation Award for Indy L-Series Low-profile Downlight.
- 2018 IES Progress Report Selection for Indy L-Series Low-profile Downlight.
- Co-invented patented low-profile retention springs for Indy L-Series Low-profile Downlight.
- Awarded 4 United States Patents.

LUCIFER LIGHTING COMPANY, SAN ANTONIO, TEXAS

Senior Design Engineer, 1/2012 - 1/2015

- Co-led new product conceptualization, development, and engineering of recessed lighting and track heads.
- Designed aesthetic and mechanical components using sheet metal, forged aluminum, and die-cast materials.
- Developed CAD models, conceptual renderings, and production drawings.
- Built prototypes, fabricated and finished models, tested and evaluated products.
- Provided production support and conducted training sessions.

PRODUCT DESIGN ACCOMPLISHMENTS

- Development and launch of 2 Series recessed lighting product line.

JOURNÉE LIGHTING, AUSTIN, TEXAS/ WESTLAKE VILLAGE, CALIFORNIA

Industrial Design Consultant, 10/2010 - 12/2011

Led new product conceptualization and development for proprietary LED module technology.

- Developed CAD models and production drawings.
- Created concept renderings and graphics for specification sheets and marketing materials.

Director of Research & Development, 10/2007 - 9/2010

Led new product conceptualization and development for proprietary LED module technology.

- Managed prototyping, model fabrication, concept evaluation, and product testing.
- Designed mechanical components using injection-molded and CNC-machined parts.
- Developed conceptual CAD models, product renderings, and manufacturing documents.
- Drafted copy and generated graphics for instruction sheets.

PRODUCT DESIGN ACCOMPLISHMENTS

- 2008 Next Generation Luminaires “Best in Class” for AZARA™ Track Light.
- Co-invented LED Module technology (Patented by Journée Lighting).
- Awarded 11 United States Patents.

TERON LIGHTING, CINCINNATI, OHIO

Director of Engineering, 9/2006 - 10/2007

Designed and engineered lighting products for hospitality environments and support of assembly operations.

QUORUM INTERNATIONAL/OXYGEN LIGHTING, FORT WORTH, TEXAS

Industrial Designer, 10/2000 - 9/2006

Designed contemporary lighting and ceiling fans for residential and hospitality applications.

PRODUCT DESIGN ACCOMPLISHMENTS

- 2013 Best 10' X 10' Booth Lightfair International for Oxygen Lighting trade booth.
- Design and development of the core Oxygen Lighting product line from 2002 to 2006.
- 2001 Good Design Award for Jellyfish Ceiling Fan.

PATENTS

- US 12663144, Issued 06/23/2026
- US 12055284, Issued 08/06/2024
- US 10955118, Issued 03/23/2021
- US 10724717, Issued 07/28/2020
- US 8783938, Issued 07/22/2014
- US 8562180, Issued 10/22/2013
- US 8414178, Issued 04/09/2013
- US 8177395, Issued 05/15/2012
- US 8152336, Issued 04/10/2012
- US 8125776, Issued 02/28/2012
- US 7972054, Issued 07/05/2011
- US D633248, Issued 02/22/2011
- US 7866850, Issued 01/11/2011
- US D628156, Issued 11/30/2010
- US D627727, Issued 11/23/2010
- US D626094, Issued 10/26/2010
- US D599040, Issued 08/25/2009
- US D585588, Issued 01/27/2009
- US D585589, Issued 01/27/2009

EDUCATION

Bachelor of Arts (BA), Industrial Design

Purdue University, West Lafayette, Indiana