

## SUMMARY OF QUALIFICATIONS

---

**Operations and Manufacturing** professional with experience in the consumer electronics, aerospace, and defense sectors that has launched critical-to-mission and industry-defining products for DoD, Apple, August, Square, Depict, and Essential.

## TRAINING AND SKILLS

---

Project and Team Management • Manufacturing Operations • Qualitative and Quantitative Analysis  
Global Contract Manufacturer Management (China, Mexico) • Lean Manufacturing/Six Sigma • DFX/DFM

## PROFESSIONAL EXPERIENCE

---

### **ESSENTIAL PRODUCTS, Palo Alto, California • MAR 2018 – CURRENT**

Senior Operations Manager – Hardware New Product Introduction, Manufacturing, and Quality

- Managed Tier-1 Chinese contract manufacturer to ensure factory and main production readiness for Essential's new products - Phone (Gen 2), Home and DAC Audio Accessory products.
- Head of Sustaining Manufacturing and Quality operations for Phone (Gen 1); worked directly with factory on critical failure analysis, customer and carrier returns, and manufacturing process improvement.
- Created Essential's operational structure for NPI and Sustaining efforts.

### **TECHNICAL CONSULTING, San Francisco, California • NOV 2013 – MAR 2018**

Consultant - Program management and manufacturing engineering services for consumer product and start-up businesses.

- **Myx Fitness, Greenwich, CT:** Product development and manufacturing consulting for an at-home interactive group fitness platform (bike, weights, video streaming).
- **August Smart Lock, San Francisco, CA:** Manufacturing engineering consulting and technical management for Chinese and Domestic CM's. Executed NPI efforts for 1<sup>st</sup> generation lock launch to ramped production of 1000 unit/day, +90% yield.
- **Superior Tape & Label, Portland, OR:** Technical management consulting for improving overall business execution, and new product development.

### **DEPICT, San Francisco, California • OCT 2016 – SEPT 2017**

Director of Manufacturing, Hardware – Depict Frame

- Head of Manufacturing and Operations for launching Depict and their Frame product: a 49" 4K display with museum quality wood framing that will showcase digital art in the home or as an enterprise solution.
- Directly managing the efforts for Mechanical, PCBA, and Packaging designs, Mold Tooling creation, Supply Chain development, and Contract Manufacturing production readiness across the US and China markets.
- Developing the 3PL/Logistics and Operations teams by advising the executive team of critical needs, identifying key business partners, and creating tools for direct, visual management of demand and production execution.

### **SQUARE, San Francisco, California • SEPT 2015 – OCT 2016**

Senior Operations Program Manager – Hardware Operations, Square Stand & Square Dock

- Managed contract-manufacturing sustaining operations for Final Assembly, Test, and Packaging (FATP) in Guadalajara, MX for **Square's Stand** product to ensure supply continuity to all customers.
- NPI Project manager for updated **Stand**. Ensured overall product readiness and FATP production execution to meet holiday retail quantities and dates. Product launched on time and on budget through proper planning and mitigation strategies.
- Managed **Square Dock** from PVT through General Availability production. Worked with China and US teams on entrance/exit criteria for specific project gates, Clear to Build and Yield targets for each stage, and ensured timely execution of production to meet global demand.

### **APPLE, Cupertino, California • MAY 2012 – NOV 2013**

Technical Program Manager – Global manufacturing operations iTunes Gift Cards, and iPhoto - Books, Cards, & Calendars.

- Directed Contract Manufacturers on operational best practices for organizational resources, manufacturing techniques, and quality metrics reporting; interfaced directly with CM Senior Leadership for NPI and sustaining activities.
- Successfully led creation of new iTunes Gift Card form factor. Worked with Apple Industrial Design and CM from prototype through EVT/DVT/PVT to ensure multiple SKUs were ready for specific country launch dates and quantities.
- Managed the onboarding of new Gift Card contract manufacturer in US. Involved site auditing, identification of key personnel, and qualification of new manufacturing processes to meet Apple quality and production rate standards.

## **TELEDYNE BROWN ENGINEERING**, *Aberdeen Proving Ground, Maryland* • **APR 2010 – MAY 2012**

Project, Contract Manager – US Army's Edgewood Chem Bio Center (ECBC), Advanced Design & Manufacturing (ADM) group

- Project lead tasked with improving design of portable shelter system in terms of mobility, sturdiness, and setup efficiency; engineered significantly lighter iteration, and greatly simplified assembly/use. Delivered on time and to proposal budget.
- Created proposal and managed \$2.5 million project for design and manufacture of Search and Extraction, and Mass Casualty Decontamination Equipment sets; managed both cross-functional teams, coordinated project schedule, handled resource allocation, and liaised between ADM and customer. Effort included Army site visits, and demonstrations.
- Directed effort developing Super Slider Alternative Kit, hydraulic expedient armor system that replaced inadequate electrical system; conducted general assembly, system FAI, and shipped kit to forward operating bases outside U.S.; executed project on time, under budget, and with positive customer feedback.

## **SMITHS DETECTION**, *Edgewood, Maryland* • **SEPT 2005 – APR 2010**

Senior Manufacturing Engineer, Project Manager

- NPI Project Manager for \$35 million Improved Chemical Agent Monitor (ICAM) program; partnered with global staff for establishing a design that met operational requirements, US manufacturing capability, and Government acceptance.
- Spearheaded manufacturing transition Joint Chemical Agent Detector (JCAD); analyzed established processes, trained personnel, and collaborated cross-functionally to transfer manufacturing capability from U.K. to US. Innovative implementation strategy created an on-time, cost-effective solution that resulted in award of ~\$100M contract.
- Established Lean Manufacturing initiative and defined standardized processes for operations, manufacturing, and quality departments, laying groundwork for significant improvement in safety and efficiency.

## **MIDDLE RIVER AIRCRAFT SYSTEMS** (GE Aviation), *Baltimore, Maryland* • **OCT 2003 – AUG 2005**

Senior Manufacturing Engineer

- Lead engineer for production of GE/Pratt & Whitney/Airbus Thrust Reverser; executed manufacturing operations, created and maintained process documentation, and managed design configuration for on-time production.
- Led Six Sigma Green Belt project that identified and corrected longstanding error associated with CF-34 Reverser quality measurement and calculation, enabling provision of accurate data in evaluating engine and aircraft performance.
- Reverse-engineered fuselage to support Black Hawk helicopter proposal; created detailed bill of materials and identified essential manufacturing operations for production.

## **UTC POWER** (former UTC Fuel Cells), *South Windsor, Connecticut* • **JUN 2002 – OCT 2003**

Senior Manufacturing Analyst – PC35 Commercial Fuel Cell

- Developed new Proton Exchange Membrane (PEM) manufacturing facility that met time, quality, and cost parameters.
- Nissan Intellectual Property Transfer team: synthesized automotive fuel cells technical data that was presented to and eventually purchased for more than \$100 million.
- Analyzed and resolved longstanding issue of cross-over leakage defect on PEM fuel cell stacks; solution resulted in cost savings of approximately \$10,000 per stack in rework labor and material costs.

## **MCQUAY**, *Auburn, New York* • **NOV 2001 – JUN 2002**

Manufacturing Engineer/Team Leader

- Oversaw approximately 20 union staff in Packaged Terminal Air Conditioner (PTAC) division responsible for fabricating, assembling, and painting HVAC products. Developed and executed the strategies for addressing operational deficiencies.

## **CARRIER CORPORATION**, *Syracuse, New York* • **MAY 1998 – NOV 2001**

Manufacturing Engineer/Supervisor

- Managed more than 30 union associates, on various shifts, that produced and assembled aluminum and cast iron compressors; provided supply chain management and production operation leadership for multiple product lines.

---

## **EDUCATION**

### **B.S., Mechanical Engineering** • **1999**

Syracuse University – L.C. Smith College of Engineering & Computer Science, *Syracuse, New York*

---

## **ADDITIONAL ACTIVITIES**

- Syracuse University Alumni Association of Northern California; Golden Gate Triathlon Club; Participate in triathlons, mountain and road biking, running, hiking, and wine tasting