

ABHINAV KRIS BHASIN

Manufacturing · Engineering · Operations · Technology · Leadership

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No Work Sponsorship Required

SUMMARY

Business, Manufacturing and Project leader with 12+ years taking custom engineered equipment from quote through design, fabrication, inspection and delivery. Currently running 5–6 concurrent projects of up to \$2M each at an ASME-certified heat exchanger and pressure vessel manufacturer, directing engineers and drafters and coordinating shop work through shop supervisors and ~20 shop employees. Managed a \$600K program budget with independent purchasing authority, supervised a 6-person contract software team across two countries, and founded a business that runs on in-house created ERP software. Completing an MBA to build on this experience.

CORE COMPETENCIES

Operations & Delivery: Manufacturing coordination · Project & program management · Scheduling and schedule recovery · Quality assurance & inspection · Process standardization · Budget Management

Leadership & Business: Cross-functional leadership · Work assignment & design review · Budget and purchasing authority · Supplier selection & negotiation · Customer communication · Estimating & bids

Technical: ASME Section VIII Div. 1 & 2 · API 660 · TEMA · Pressure vessel & heat exchanger design · Software evaluation & rollout · PVElite & CodeCalcs · Workflow automation · AutoCAD · SolidWorks · Epicor ERP · AKB OS (self-built ERP/CMS)

PROFESSIONAL EXPERIENCE

EMCOR – REDMAN EQUIPMENT & MFG. | Torrance, CA

August 2023 – Present

***Mechanical Engineer; Backup to Chief Engineer** - Custom heat exchangers and pressure vessels*

- Responsible for engineering calculations & drawings, fabrication & project scheduling and customer communication for 5–6 projects at a time reaching a value of up to \$2M each. Taking projects from design through fabrication, inspection and shipment.
- Serve as a backup to the Chief Engineer: assign work to and direct engineers and drafters, and review and approve their drawings and calculations.
- Coordinate shop execution through shop supervisors (Over 20 shop employees), keeping engineering, purchasing, production, QC and the customer aligned.
- Led replacement of the company's deprecated design-calculation software: evaluated several platforms, found calculation errors in candidates, selected and implemented CodeCalcs, and trained the engineering team. Completed the transition in January 2026 with no delays to any projects.
- Prepared and presented engineering verification calculations for the 2026 ASME audit, supporting retention of the company's ASME stamp; calculations were accepted without findings.
- Engineered the internal and external vessels for Valar Atomics' WardZero reactor prototype — produced calculations and drawings, ran progress meetings with the customer's engineering team, and managed the fabrication schedule.
- Protected delivery dates with engineered fixes. Examples: Restored code compliance on an under-thickness purchased head with a nozzle reinforcement pad instead of reordering. Caught missed baffle cuts before scrap the entire project. Designed an alternative fastening approach that removed wrench-access limits and avoided buying new equipment.
- Run material thickness optimization on hundreds of jobs a year. Built reusable templates for drawings, calculations, inspection and test plans, and schedules.

AKB ENTERPRISE LLC (DBA: A KEEPSAKES BRAND) | Los Angeles, CA

May 2025 – Present

***Founder & Owner** - Laser engraving and custom products for consumer and business customers*

- Founded and run the business end to end- pricing, purchasing, production, fulfillment and customer service - across ~400 orders, including repeat B2B customers.
- Built AKB OS, a browser-based ERP/CMS used daily to run the business.
- Raised manufacturing output (currently at about 60 units per 20 minutes) through batching, AI workflow automation and in house designed 3D-printed fixtures.
- Managed supplier relationships and developed online and physical sales channels.

PACIFIC STANDARD ENVIRONMENTAL | Huntington Beach, CA
CEMS Mechanical Engineer - Continuous emissions monitoring systems

September 2022 – July 2023

- Co-developed the company's first in-house CEMS cabinet. Guided installation with the field service team at Snow Summit in Big Bear, CA, where the cabinet entered customer use.
- Prepared purchasing bill of materials and component-cost analysis to inform the owner's product-pricing decisions.
- Designed for serviceability: wiring color-coded by area, labeled terminations, and tapped mounting panels that eliminated rear nuts.

GENESIS TECHNOLOGY INC. (GTI PETRO) | Irwindale, CA

August 2021 – August 2022

Mechanical Engineer & Project Manager - Outdoor cash-payment machines for ARCO fuel stations

- Led development, manufacturing, and deployment of 28 cash-payment machines across seven ARCO sites, managing an authorized \$600,000 project budget allocation (\$300K for software development and \$300K for hardware and all other costs).
- Coordinated and supervised six contracted software contributors in Los Angeles and India, defining operating requirements and managing schedules across software, hardware, fabrication, and installation.
- Selected fabricators, negotiated supplier prices, and approved project purchases. Supervised assembly by company service personnel and coordinated construction and electrical contractors for installation.
- Added a camera system to capture transaction evidence after customer payment disputes.

BRASK INC. | Pearland, TX

February 2015 – June 2021

Lead Mechanical Engineer – Estimating Department - Shell-and-tube heat exchangers

- Promoted into a Project Manager role: ran 30+ projects end to end- customer communication, quoting, engineering, purchasing and production planning for customers including LyondellBasell, Marathon Petroleum and ExxonMobil.
- Led the estimating team with 4 direct reports, producing bids and quotes for equipment designed to ASME and TEMA.
- Connected customer specifications with estimates, bills of materials, production documentation, and shipment coordination; facilitated customer meetings to clarify project requirements.
- Trained and mentored junior engineers.

HARDY MACHINE & DESIGN | Houston, TX

September 2014 – February 2015

Mechanical Engineer

- Managed customer purchase orders, clarified engineering requirements with machinists, and supported inspection activities as secondary quality manager.

EDUCATION

Master of Business Administration (MBA) - Eastern University | Current GPA 3.9, Expected 3.9

Expected Jul 2027

B.S. Mechanical Engineering — Purdue University

2014

Research Assistant, Purdue University (2012–2014); co-author of two papers at ASME IDETC/CIE 2014.

CERTIFICATIONS

Project Management Certificate — Cornell University

2023

AI for Business Specialization Certificate — University of Pennsylvania (Wharton)

2026

AI Essentials Certificate — Google

2026

ADDITIONAL

Current Projects: Business Venture as AKB Enterprise LLC. Building an ERP system/All-In-One program – AKB OS.

Technical Foundation: Manufacturing with CNC, plasma & laser machines, and additive manufacturing. Software proficiency in AutoCAD, Solidworks, CREO, Excel, Coding with Codex and Claude Code, CodeCalcs, PV Elite, and Compress.

Portfolio: www.abhinavbhasin.com

LinkedIn Profile: <https://www.linkedin.com/in/akbhasin/>

Work Authorization: Authorized to work in the US. No Sponsorship required.