

BEST CIRCUITS

**Built to Defend,
Engineered to Last.**

We are a vertically integrated product development firm specializing in the engineering and manufacturing of defense and aerospace applications.

Women-Owned Small Business (WOSB)



Our leadership is the driving force behind exceptional service and outcome



Dan Dina – Vice President of Engineering

Strengths: Architectural Design, R&D, and Artificial Intelligence

- Senior Director of R&D for fortune 500 companies
- BS in Electrical Engineering
- MS in Artificial Intelligence, Computer Engineering

Experience Matters

Decades of leading fortune 500 companies provides an understanding of design and manufacturing **expectations**.

Implemented and refined processes, systems, and facilities to **scale** large organizations for design and manufacturing (Defense agencies, Defense contractors, Google, HP, Luminar Technologies).

Dozens of patents secured in manufacturing, microcontrollers, RF, and hardware architectures

We provide end-to-end engineering and manufacturing for mission critical applications at scale while achieving maximum product profitability for our clients.

Who we are

Business Model: Our business strategy involves selecting clients for whom we can provide end-to-end engineering and manufacturing support at any stage of the NPI process.

What we do: As a vertically integrated product development firm, we specialize in partnering with defense contractors to enhance their engineering teams, optimize product profitability, and accelerate time to market.

How we do it: After decades of leading R&D, engineering, and manufacturing for multiple Fortune 500 OEMs, we've gained valuable insights that helped us optimize each stage of the NPI process, resulting in shortened product development cycles without compromising product profitability, quality, or performance.

Our value add: Our vertical integration allows us to control the entire design-to-manufacturing process. As a result, we can quickly design and deliver rugged and dependable subassemblies or complete box builds without relying on a contract manufacturers. Our track record demonstrates consistent on-time project delivery within established budgets, as we eliminate the reliance on external partners.

Design and Manufacturing Center: We adhere to the principle of maintaining complete control over our design and manufacturing processes. At our facility in Melbourne, Florida, we undertake all aspects of product development, from initial design to engineering and manufacturing.

Our Services

- Design & Product Development
- DFx Review (DFMA / DFS / DFT / DFC / DFR)
- Supply Chain Management
- Quick Turn Prototyping
- PCBA Manufacturing – Prototype to High Volume
- Box Build and Cable Assembly Production
- Test Systems Development

Our defense and aerospace products undergo rigorous design processes to meet the demanding needs of harsh environments, deliver high performance, and comply with MIL-STD qualification requirements.

Expertise in Land, Air, and Sea Applications



- #### Hardware Development
- Advanced Compute System for Critical Weapons Control
 - Embedded Performance Controllers
 - Networked Communication Devices
 - Low Power Monitoring Circuits
 - Custom Analog Circuits
 - FPGA HW Code

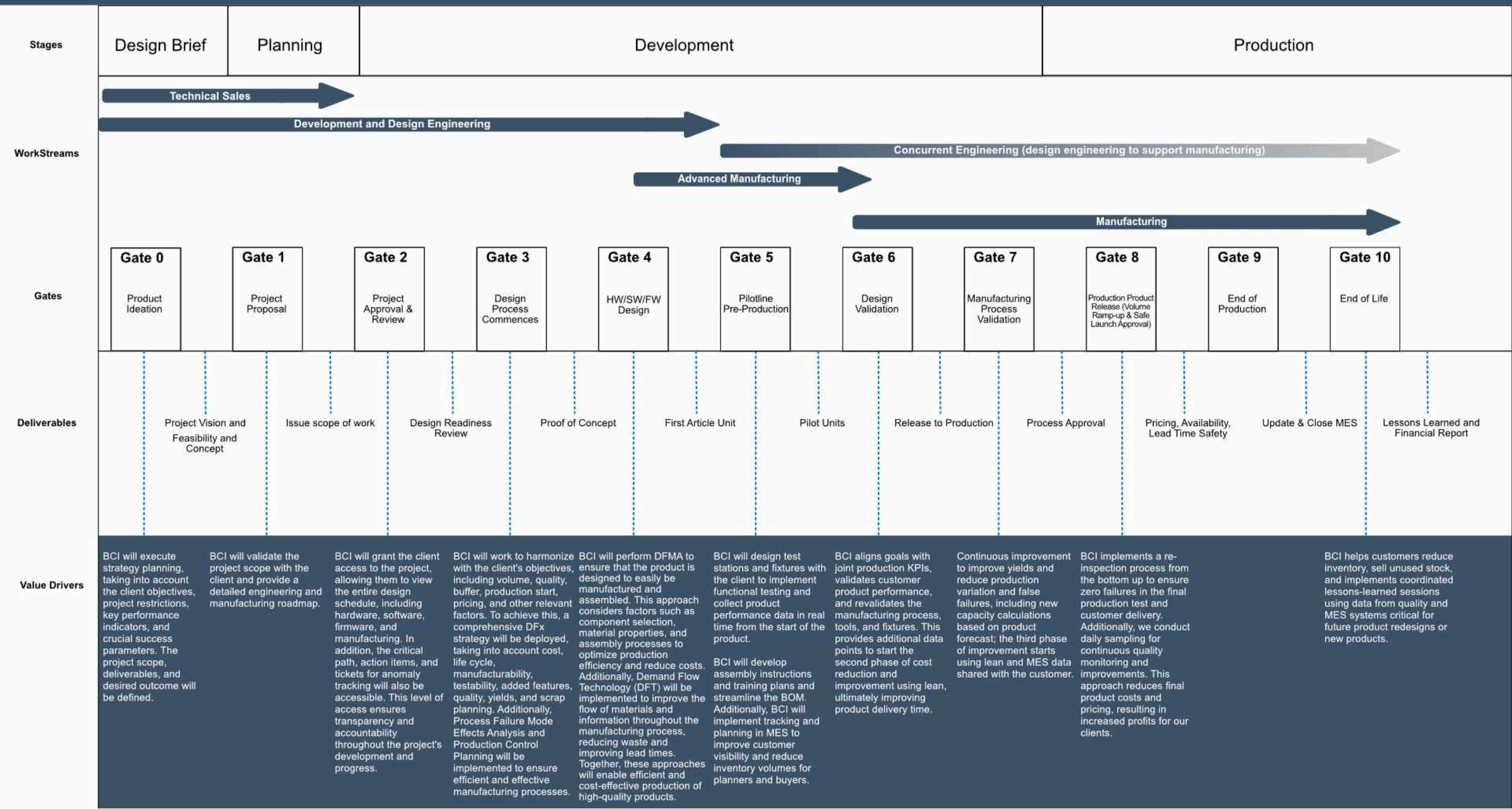
- #### Firmware Development
- Xilinx/Altera VHDL Code Dev
 - Embedded C/C++ Firmware
 - Intranet Applications
 - Image Processing Algorithms
 - AI Applications for Vision
 - Advanced Memory Management

- #### Designed for Qualification
- MIL-STD-810
 - MIL-STD-461
 - MIL-STD-704
 - MIL-STD-901
 - MIL-STD 1275
 - MIL-STD 464

Our vertical integration enables us to control development and manufacturing costs, maximize profitability, and accelerate time to market while ensuring projects are delivered on time.

| Electrical | Mechanical | Firmware | Software | Artificial Intelligence | Manufacturing | Quality / Regulatory |
|--|--|---|--|--|---|---|
| <ul style="list-style-type: none"> • Schematic capture & PCB Design • Microcontrollers & Processors • High speed ADC/DAC interface • High speed memory interface • RF hardware design • Signal conditioning & integrity • Communication (USB, TCP, PCIe) • FPGA / DSPs / ASIC • Optical design • LiDAR design • Sensor design | <ul style="list-style-type: none"> • Mechanical system • Mechanism development • Materials selection • Simulation • Prototype development • DfX analysis • Tolerance analysis • CAD / Drawing • Mold-flow analysis • Finite element analysis • Thermal analysis | <ul style="list-style-type: none"> • Diverse processor architectures • FPGA SoC support • DSP, ADC & DAC drivers • C/C++, C#, C.NET, QT, Python • RTOS (CoOS, FreeRTOS, ChibiOS) • Embedded Linux • I2C, SPI, CAN, ADC, SD drivers • Protocols • Image processing • Data storage • Integration to hardware | <ul style="list-style-type: none"> • Software development & design • Driver and support software • System integration • Embedded GUIs and Web services • Automatic system testing • Languages: go, Java, C+, C/C++ • Languages: Swift, JS, Python, Kotlin • Mobile: iOS, Android, Flutter, React • Web: Vue, React, Angular • Cloud: AWS / MS Azure • Data Base Management: PostgreSQL, MySQL, NoSQL, Oracle • Embedded C++ • Labview | <ul style="list-style-type: none"> • AI discovery • AI architecture design • AI solution development • AI deployment • AI maintenance and support | <ul style="list-style-type: none"> • Advanced automated SMT assembly • Ball-grid array packaging • Chip-on-board • Multi-chip module assembly • Pin-through-hole assembly • Multiple coating and treatments • Multilayer • Test development • Design for manufacturing (DFM) | <ul style="list-style-type: none"> • Risk management • Design to comply • Regulatory compliance • Verification planning/testing • Reliability evaluation • Design control support |

We maximize your product profitability by optimizing the entire design-to-production process



Contact us

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