

Gregory Baker

Mechanical Design Engineer, MS2

Springfield, PA - Email me on Indeed: indeed.com/r/Gregory-Baker/914d39bb621a9eaf

CAD designer seeking a position within a motivated team environment relating to Architectural, Civil and Mechanical industries. Demonstrated proven success in producing quality designs, lowering cost and reducing schedule interval through attention to detail, quality work and an ability to address needs and critical issues quickly. Valued team player consistently driven to results under high quality standards.

CAD SKILLS

- AutoCAD [...] • ProEngineer Wildfire 1.0-5.0 • Mentor Graphics
- Pro-Detailing • ProDiagram • Solidworks 2006
- Pro-Piping • ProIntralink • Full/Sub assemblies
- Pro-Cabling • PTC Creo 1.0/2.0 • PTC Windchill

WORK EXPERIENCE

Mechanical Design Engineer, MS2

LOCKHEED MARTIN - Moorestown, NJ - 2006 to 2013

Maritime Systems and Sensors)

Mechanical design engineer responsible for new design and re-design of various electronic and mechanical packaging of navy and army defense equipment pertaining to US government contracts.

- CAD design support using Pro-Engineer Wildfire for creating part and assembly models for mounting plates, coolant channel coldplates, circuit modules, i/o panels, chassis servers and other various components. Receive sketches and descriptions, provide calculations, layouts, details for complete mechanical design.
- Efficient component modeling using Family Tables to create multiple component instances derived from a common generic component. Provides future re-use for future designs.
- Use Pro-Detail for full dimension and reduced dimension drawings. Application of ASME Y14.5 Standards and basic GD&T principles for all drawing details. Adhere to MS2-Moorestown Drafting Standards and procedures. Provide appropriate drawings as necessary to selected machine shop vendors.
- Use Pro-Piping to model simple routing of RF semi-flex cabling. Control cable lengths, thickness and bend radius. Pro-Cabling used on occasion for individual pin and conductor assignments per schematic.
- Incorporate Electronic Change Notices (ECNs) per Lockheed Martin Mechanical Design area standards and utilized the EDR (Electronic Drawing Release) system for formal design tracking, signoff and drawing release.
- Create electronic BOMs for all assembly levels of a design and keep track during course of design and provide official release to LM MS2-Moorestown Parts Group.
- Work as a team with Electrical Designers for concurrent design of pwbs and backplanes.

CAD Operator/Design Engineer, Engineering Department

GLASSEAL PRODUCTS - Lakewood, NJ - 2004 to 2006

Mechanical designer responsible for new design of various components using glass-to-metal (hermetic) sealing technology. Create innovative carbon mold fixtures to maximize production of hermetic components while minimizing cost of furnace firing processes. Work with supplier vendors for ordering mold and tooling fixtures.

- CAD support using Pro-Engineer and Solidworks to develop 3D component models, sub and full assemblies followed by standard Pro-Detail drawings. Release final drawings to production and quality assurance.

- Demonstrated team player values by working design concepts with process engineering team prior to release of new product lines. Work with sales department regarding design quotations, customer issues and materials management. Suggest cost effective measures for all development phases.
- Create BOMs and assign company part numbers for all new components and finished goods. Follow ISO-9000 document control processes for effective design flow and drawing file management.
- Initiated engineering change notices and incorporated drawing modifications using Pro-Engineer and Solidworks.

Member of Technical Staff

LUCENT TECHNOLOGIES - Holmdel, NJ - 1988 to 2003

Schematic Designer, Holmdel Design Engineering Services

Leader of schematic capture team providing full engineering support of circuit drawings and formal documentation pertaining to standards for internal/external customer distribution. Provided expertise on schematic standards for circuit module, circuit pack, backplane and system designs. Quality Assurance leader responsible for checking design intent accuracy for all design changes applied to several schematic types.

- ECAD drafting of data driven schematics for the layout of printed wiring boards (PWBs). Effectively communicated with engineering customers to define design requirements and interface with manufacturing following DFM guidelines.
- Provided leadership ensuring all team designers understood and adhered to schematic design and documentation standards. The result was a seasoned design team consistently meeting or exceeding customer expectations. Demonstrated as a "role model" by appointment as leader of the department Schematic Quality Improvement team.
- Created innovative system drawings to convey cabling interconnection of optical networking products at a unit, shelf and frame level.
- Generated assembly drawings for circuit pack, circuit module and backplanes with associated stocklists.
- Effectively translated paper plots of electrical cable drawings to ECAD data driven cable and harness wirelists for downstream 3-D cable routing and interconnection.

Associate of Technical Staff

AT&T BELL LABORATORIES - Whippany, NJ - 1987 to 1988

Electronics Technician, Area 46: Federal Submarine Systems

Provided technical support of Federal Undersea Telecommunication systems. Projects included the ULSS and SL-45 Undersea Lightwave and SURTASS Towed-array cable systems.

- Responsible for the test and analysis of prototype circuitry for optical transmitters and receivers and subsequent documentation of test results. Duties included signal tracing and debugging of TTL and ECL logic circuits. Built and tested digital circuits using quick-connect and wire-wrap proto boards.
- Maintained government security clearance (G-2: Secret level) and properly handled documentation/test procedures as such towards sensitive material classified as confidential, proprietary and secret.

EDUCATION

Brick Computer Science Institute - Township of Brick, NJ

A.S. in Electrical Engineering

Brookdale Community College - Lincroft, NJ

Diploma in Electronics

DeVry Technical Institute - Woodbridge, NJ