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Arnold Cochran

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US

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Arnold Cochran

Arnold Lloyd Cochran Jr.

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Cell: (860) 309-6207
alc3758@att.net

Objective: To design high-quality components, utilizing my CAD skills and experience in detailed design.

Applications: AutoCAD Inventor, SolidWorks, CADRA, ME10, Pro/E, Cadkey, Mechanical Desktop.

Summary:

SR. Mechanical Designer

Experienced in design and continuous improvement of a wide range of components for diverse industries including aerospace, agriculture, automotive, electronics and utilities.

Expertise in development of small mechanisms, sheet metal layout and design, gearing, fiber optics, electromechanical sensors, fluid-handling hardware & high frequency printed circuit boards.

Well-versed in geometric dimensioning and tolerancing.

Responsible for Designs of the following: structural elements, telecommunication panels (electrical & fiber optics), detailed parts, assemblies, BOM's, and sheet metal layout, in compliance with ANSI and ISO standards.

Professional Experience:

Mechanical Designer: 2/11-Still employed, Tomtec Inc., Hamden, CT.

Industry experience and contacts led Tomtec to create and build custom made systems for automating pharmaceutical research. These systems were primarily used for automating soil screen programs. Automated agar cutting systems were made for Schering and Lilly. Then, a fully automated colony picking system was created and built for Bristol-Myers. Concurrently,

Tomtec created and manufactured and automated instrument to rehydrate dry antibiotic microtiter plates for MicroScan. Two hundred instruments were manufactured and sold through Baxter/American Scientific Products. I've been working on the 4 stage DBS Processing picking system. This comes with a rotational table using stepper motors and air cylinders. The CADD system used is Solidworks.

Mechanical Designer: 8/10-10/10, Temporary Position, Pioneer Aerospace Corp.
South Windsor, CT.

Pioneer Aerospace is a manufacturer of parachute systems. While working there I designed a parachute baking platform. After a parachute is made, then they will roll it up to fit into its carrying pouch. At that time the parachute must enter the oven to bake and contract. The CAD system used was Autodesk Inventor.

SR. Mechanical Designer: 11/07 – 12/09, Startech Environmental, Bristol, CT

Startech was the internationally recognized, Award-winning, Environment and Energy Industry Company producing and selling its innovative, proprietary plasma processing equipment known as the Plasma Converter System™. The Startech Plasma Converter is essentially a manufacturing system producing valuable commodity products from feedstock-materials that were previously regarded as wastes. Work responsibilities included the design of the vessels and skids that the vessels were positioned on. Worked with both 5 ton and 10 ton vessels. In addition, worked intensively with the feed system (which was fed with municipal waste on a conveyor to the feeder which has a slide gate that will open and drop into a hopper). The municipal waste will then go down the screw feed into the vessel, while converting the waste into useful commodity products which can include silicates, hydrogen, electricity and a synthesis-gas called Plasma Converted Gas (PCG). Also worked on P&ID and Bill of Materials. The CAD software used was AutoCAD Inventor 3-D, Mechanical Desktop, and SolidWorks.

Mechanical Designer: 4/06 – 11/07, Pepco/Bass, Bristol, CT

LCS (Littoral Combat Ship)

Responsible for all the Mechanical Designs of the Control Panels and cabinets which are located on the LCS (Littoral Combat Ship). Worked closely with 2 Electrical Engineers on the layout. All the panels and cabinets are constructed of aluminum. Performed all the tasks to get ready for the barge test. Duties included positioning the appropriate shock-resistant springs on all the cabinets, which were then placed on a barge and tested for shock with explosives under the barge at 20 ft. The mechanical design part of the job is laying out all the electrical components on the panels, and designing the cabinets to ANSI 14 and Mil Specs. The CAD software used was AutoCAD 2000, and Mechanical Desktop.

Mechanical Designer: 4/05 – 4/06 Temp., Summit Technical /Radio Frequency
Systems, Wallingford, CT

Using AutoCAD Inventor, Mechanical Desktop 6, SmarTeam V13 (PDM), Mapics (MRP)
Software trained: SolidWorks 2005

Responsible for design packages of telecommunications rack systems. Rack systems include Circuit Breaker Tray assemblies, Amplifier Tray assemblies, Filter Tray assemblies and Wiring Diagrams. Other responsibilities include input of BOM and MRP systems (Mapics), and writing and implementation of ECO's.

Mechanical Designer: 8/04 – 4/05 Temp., Summit Technical/Sperry Rail Service,
Danbury, CT

Sperry Rail Service is the world leader in Rail Flaw Detection. They use two techniques to find flaws in the rails, one is ultrasonic – which is sound waves traveling through the rail, and the second is induction – high current through the rail creates a magnetic field.

Using AutoCAD Inventor 3-D.

Worked on exterior and interior of the test carriage which included: test frame, wheel brackets, brush cluster assembly, spreader bars, paint gun assembly, encoder assembly, junction boxes, power supply assembly, water tanks, and cabinets. Performed different aspects of the AutoCAD Inventor CADD system which included: exploding assemblies, adding tweaks, setting camera angles, animating motion and saving to AVI files. Created drawings, which included geometric tolerances, parts list and isometric views of the parts and/or assemblies.

SR. Mechanical Designer: 9/01 – 6/04, Neeltran Inc., New Milford, CT

Manufacturer of Transformers, Rectifiers & chokes
Designed sheet metal cabinets and panels for the placement of Transformers and Heat Exchangers, plus layout of plumbing. Responsible for all schematics, which detailed the hook-up of heat sinks, fans, snubber boards, and control transformer. This was done working closely with electrical engineers. AutoCAD 2-D and AutoCAD Inventor 3-D were the CAD systems used. Worked in a fast pace setting which required strong attention to detail. Worked well in a team environment, that fostered exchange of knowledge and learning.

Military Service:

U.S. ARMY: E-4; Honorable Discharge

Education and Professional Development:

State of CT Certificate: Geometric Dimensioning & Tolerancing (ANSI 14.5M)

Porter & Chester Institute, Wethersfield, CT
Mechanical Design; emphasis on electrical and machine design, gears, jigs and fixtures
GPA: 3.8

E.C. Goodwin Technical School, New Britain, CT
Trade: Tool & Die machinist

Additional course work: SolidWorks 3-D CADD design software (two 3-day seminars);
AutoCAD Inventor 3-D Group in Glastonbury, CT – attended monthly meetings on troubleshooting Inventor 3-D problems.

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