

Martin Abulencia

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Profile:

- Mechanical Designer/Drafter of 18 years' plus with Computer Aided Design and Drafting regarding Mechanical Designs, which include Aerospace Components, Aerospace Shaft, Theater Rigging, Industrial Piping, Sheet Metal products and Industrial Drivetrain Shafts.
- Expedient with abilities for Computer Aided Design and Drafting (CADD) such as solid modeling, drawings and project management in order to resolve mechanical design issues, flaws and to promote ease of manufacturability.
- Support Design Engineering department by implementing PLM procedures with ECNs, CRs, PRs, Non-Change Revisions and other required interdepartmental clerical tasks.
- Dynamic, with a solid background, with interpersonal skills, as well as first-class analytical and problem-solving expertise.

Strengths in:

- Consistent punctuality as a reliable and loyal employee
- The ability to listen to and understand information and ideas presented by all
- Control time constraints with all projects and daily duties.
- Troubleshooting -- Determining causes of operating errors and deciding what to do about it
- Critical Thinking -- Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- Equipment Selection -- Determining the kind of tools and equipment needed to do a job safely
- Computer literate user -- advanced knowledge of computer fundamentals and software protocols
- Knowledge of 2018 Solidworks, Autodesk Inventor / AutoCAD and Siemens NX11
- Strong researching protocol with punctual response time for all Design Engineering inquiries
- Generate/Update drawing BOMs & material specs within CAD applications or MS Excel spread sheets
- CAD redraws with legacy products for ease of manufacturing
- Drawings utilize ASME Y14.5M -1994 and/or current geometric dimensioning & tolerances specifications
- Control time constraints with all mechanical & aerospace design project deadlines
- Share all vital tribal knowledge with Design Engineering associates
- Avid user with Microsoft Office and the Internet's Chrome/Microsoft browsers
- High aptitude with a variety of mechanical type designs

Employment Background

Mechanical Designer/Drafter

Wenger Corporation (formerly JR Clancy) ~ Syracuse, NY

~ contracted by Can-Am Consultants, Inc. ~ Rochester, NY, (Present)

- CADD Technician assigned to develop new theater rigging designs.
- Maintain a variety of drawing revisions for Sustaining Engineering.
- Duties include CAD support for a variety of Theater Rigging and its peripherals per client specifications.
- Specializing in customizations with performing arts stage rigging systems for thousands of venues worldwide.
- All drawings are created with 2018 AutoDesk AutoCAD Mechanical, Inventor or 2018 Solidworks / PDM and supported by Epicor PLM.

Mechanical Designer/Drafter – assigned as Design A, for Draft/Design Services

Collins Aerospace ~ Rome, NY (2014-2019)

(formally United Technologies Corporation as United Technologies Aerospace Systems, UTAS)

- Duties include to sustain existing reorder designs, proposals and preliminary prototype developments to create new aerospace shaft designs. Responsible for the support of design projects and Engineering Change Orders in conjunction with NX 11 CAD and Enterprise Process Efficiency Collaboration 11, PLM software. Siemens NX is the industry's most integrated, flexible and efficient CAD solutions for conceptual design, 3D modeling and documentation. United Technologies Aerospace System's Team Center 11 (EPEC Rich Client and Active Work Space) acts as the Product Lifestyle Management and Application Lifestyle Management applications and allows UTC to unify their global network of data from one source.

Mechanical Designer/Drafter/Contractor

United Technologies Aerospace Systems ~ Rome, NY

~ contracted by Amotec Technology Solutions ~ Ohio (2013 – 2014)

- Responsible for supporting the Goodrich, Power Transmission Systems for the Engine Systems division, with a variety of aerospace aircraft shaft designs for the commercial and military clients. In addition, to primarily support Collins Aerospace, formally UTAS (United Technologies Aerospace Systems)
- Responsible for supporting the IGT Division (Industrial Gas Turbine) with the industrial coupling designs.
- Create new solid model designs and sustain existing designs within Siemens Teamcenter per the PR/CR order requirements. All NX parts and drawings network to SAP using the EPEC/PLM global system
- Duties include design/drafting for customer proposals and support Sustaining Engineering with PR/CRs. All part solid models and specification drawings are designed and revised using Siemens NX11

CAD Drafter

Tactair Fluid Controls Inc ~ Liverpool, NY (2006 – 2013)

- Responsible for a variety of mechanical designs incorporating specialized products such as aerospace hydraulic and pneumatic controls for the aerospace industry.
- Control pertinent documents and review all project specifications regarding ERN/ECN procedures for the Design/Manufacturing processes using ARAS, Motiva and Inventor 2013 Vault for the part model and drawing file management.
- Material lists data controlled by implementing Alpha / Maxim as MRP system.
- Ability to identify and rectify customer related concerns by effectively balancing company goals with all project allotted time values.
- Support military design projects provided by government clients for both, new product designs and sustaining-legacy product designs.
- Support commercial aerospace design projects provided by civil/commercial clients.
- Work closely with Project Engineers throughout entire design evaluations and the manufacturing tooling processes.
- New industrial designs engineered and designed with Autodesk Inventor 2013 for part solid models and drawings.

CADD Technician

Mitten Fluid Power, Inc ~ Syracuse, NY (1997 – 2002)

- Responsible for the design and layout of process fuel forwarding systems including lube and water piping arrangements by translating customer's P&ID system schematics.
- Included were sheet metal enclosure layouts, structural weldments and other various piping fabrication details for client, G.E. Power Systems/Turbine Division, Schenectady, NY.
- Review project specifications, ordering drawings, piping schematics, and vendor deviation requests provided by G.E. to direct the course of design.
- Produce commodities lists, and bills of materials using MS Access software.
- Create 3D models and details to ensure pipe fit-up at assembly, working closely with System Engineers throughout the entire design process.

All drawings and models were produced using ACAD 2000i and MDT 5.0.

CAD Drafter/Contractor

T&M Technical Services Inc ~ Syracuse, NY for United Technologies Corp. ~ Carrier Corp. Division

- Responsible for the development of a large series of mechanical drawings and related bill of materials for a variety of industrial Hermetic Absorption Liquid Chiller Machines for the Global-Heavy Non-Electrical Unit for UTC/Carrier Corp.
- This project entailed the redesign of various details, subassemblies and final top assemblies using original Japanese mechanically engineered drawings that required translation and updating to current U.S. drawing specifications.

Education/Certifications/Applications

Solidworks 2018 with PDM/Epicor PLM, current CAD application

AutoDesk AutoCAD Mechanical and Inventor 2018

Siemens NX7.5 - 11 Certificates and EPEC/PLM Teamcenter 8.0 - 11 Training ~ UTC ~ Rome, NY

Autodesk Inventor 2012-2018 ~ Adraft ~ Fairport, NY

Tec-Ease GD&T Training and Certifications ~ Fredonia, NY

Autodesk AutoCAD, Inventor 2006 – 2011 ~ MGB Technical Services ~ Clifton Springs

Sign Lab, GSP, Corel Draw, Flexi-Sign, CAD/CAM & Smart Draw sign layout applications

Mechanical CADD Certificate ~ OCM BOCES ~ Liverpool, NY

Fine Arts/Liberal Arts program ~ SUNY Potsdam ~ Potsdam, NY

Design & Fine Arts ~ Vocational Tech ~ Onondaga Community College ~ Syracuse, NY

High School Diploma ~ Cicero North Syracuse High School ~ Cicero, NY