

Michael Kintz

Skilled CAD Designer with quality-focused and disciplined approach.

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Professional Summary

Skilled CAD Designer with 25 years of experience in the design and drafting of engineering deliverables for Manufacturing, Industrial Construction, Power

Generation and Distribution, and Aerospace sectors. Successful at operating in team-based and independent capacities to achieve project goals with minimal supervision with quality-focused and disciplined approach.

Authorized to work in the US for any employer

Work Experience

Mechanical Drafter II

United Rotorcraft / Air Methods-Centennial, CO

April 2022 to Present

- Drafted and developed detailed drawing packages for aircraft installation, repair, and modification of mechanical helicopter systems in compliance with FAA certification requirements.
- Utilized SolidWorks, AutoCAD, and SolidWorks PDM to create precise mechanical designs and manage documentation efficiently.
- Collaborated with engineering teams to ensure accuracy and regulatory adherence throughout the design and modification process.
- Maintained organized and version-controlled technical drawings to support streamlined project execution and certification approvals.

Aerospace Drafter

Straight Flight-Centennial, CO

July 2021 to February 2022

- Supported aircraft repair and modification activities by creating structural and electrical design drawings for approval by company's FAA Designated Engineering Representative (DER).
- Created 3D aircraft structural drawings in Autodesk Inventor and 2D electrical wiring diagrams in AutoCAD and Bills of Material for aircraft repair or modification activities.

Electrical Designer - (Contract)

United Launch Alliance-Centennial, CO

June 2019 to October 2019

- Supported the Vulcan/Centaur Ground Support Equipment program by creating and updating electrical wiring diagrams using Zuken E3.

Electrical Designer II - (Contract)

Sierra Nevada Corporation-Centennial, CO

December 2017 to June 2019

- Researched, modeled, and tested Zuken E3 library components from vendor datasheets, interconnect wiring diagrams, or military specifications to support assigned aircraft modification programs for the electrical engineering team.
- Created aircraft electrical wiring diagrams and wiring harness fabrication drawings using Zuken E3.

CAD Designer - (Contract)

Baker Hughes G.E.-Longmont, CO
January 2017 to October 2017

- Supported engineering team in the design and prototyping of a retrofit upgrade kit for a generator DC excitation digital front end control system.
- Produced 3D part & assembly models, and 2D drawings using Autodesk Inventor, and AutoCAD Electrical to produce the wiring diagrams and cable fabrication drawings and maintained version control of released drawings and Bills of Material in SAP PLM.

CAD Design Specialist - (Contract)

Defense Information Systems Agency-Greenwood Village, CO
May 2015 to December 2016

- Provided CAD support for the DISA Facilities Management Support Services contract using AutoCAD.
- Conducted on site verification and produced record drawings for the electrical distribution and mechanical systems for 7 DoD data centers per Army Corp of Engineers CAD Standards.

Mechanical Designer - (Contract)

Delta Constructors-Denver, CO
August 2014 to January 2015

- Produced general arrangement & site layout, piping and structural support, field and shop assembly drawings for the construction of Midstream Oil and Gas facilities in AutoCAD.
- Developed new CAD standards to improve construction documentation package efficiency.

Mechanical Designer

Industrial Cooling Solutions-Lakewood, CO
June 2012 to May 2014

- Created 3D part and assemblies, general arrangements, component installation, structural, sheet metal fabrication and detail drawings in AutoCAD for the construction of industrial cooling towers for the power generation market.

Mechanical Designer / Local SAP Administrator

GEA Heat Exchangers-Lakewood, CO
August 2007 to March 2012

- Led the design department transition to Solidworks and developed new design standards.
- Created 3D part and assemblies, general arrangements, component installation, structural, sheet metal, fabrication and detail drawings and Bills of Material for the construction of industrial cooling towers for the power generation market.
- Significantly contributed to the success of the company's SAP implementation while working closely with corporate implementation team to capture and implement company's existing work processes in the SAP Project System, Material Master, and Purchasing modules.
- Trained project managers & procurement team in Project System & Purchasing SAP modules. Provided first level local and remote support for 20 SAP users.

CH-47 Chinook Helicopter Mechanic / Night Shift Maintenance Supervisor

Colorado Army National Guard-Balad, Iraq
March 2006 to July 2007

- Assessed and prioritized maintenance requirements of unit's 14 mission aircraft to support 24/7 flight operations significantly contributing to the unit's high operational readiness and success.
- Supervised and provided technical guidance & training for a 15 person aircraft maintenance team, evaluated maintenance operations for compliance with technical manuals, safety procedures, and operational policies.

Mechanical Designer

GEA Power Cooling-Lakewood, CO
December 2004 to March 2006

Helicopter Mechanic

Alabama Army National Guard-Kuwait City, Kuwait
March 2003 to August 2004

Electrical/Mechanical Designer

US Filter-Colorado Springs, CO
October 2001 to February 2003

CAD Operator

Black & Veatch-Aurora, CO
June 2001 to October 2001

CAD Operator

Tour Ice National-Colorado Springs, CO
April 1997 to May 2001

CAD Operator

Consulting Engineers Inc.-Colorado Springs, CO
June 1995 to February 1997

Production Welder (MIG / TIG)

Micro Metals-Colorado Springs, CO
January 1993 to May 1995

Helicopter Mechanic

US Army-Fort Campbell, KY
February 1984 to December 1989

Education

Electromechanical Design (AAS)

Denver Technical College-Colorado Springs, CO
November 1992 to September 1995

Skills

- Strong Mechanical and Electrical Background | Autodesk Inventor 2021 | AutoCAD 2022 | Zuken E3 | Autodesk Inventor 2021 | SAP (Project System, Material Master, Purchasing)
- CAD

- Mechanical Design

Military Service

Branch: US Army and Colorado Army National Guard

Service Country: United States

Rank: Staff Sergeant

February 1984 to March 2008