

Duane R. Cole

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QUALIFICATIONS

Design Engineer for CAD/CAM/BIM Design and CNC operations.
Solidworks Design for Complex Assemblies and Fixturing.
CNC, FEA and CFD practices for Manufacturing processes.
Haas, Peddinghaus, Onsrud machining.
GD&T/AS9100 Certified.

EMPLOYMENT HISTORY

Aerospace Design & Manufacturing (2016 Jul-Current)

Scion Aviation Colorado

- Program & operate HAAS GR 712, Zimmerman & VM-3. Using Catia, Solidworks & SolidCam
- AS9100 certified
- Support engineers with Solidworks CAD drawings & detail dims.
- Cut Aluminum, Carbon Styrofoam, MDF and Tooling board materials specific to each aircraft.
- Create complex molds, plugs, surfaces & geometry and determine best methods for time & tolerance constraints.
- Revise programs for production: create R&D molds and parts.

Aerospace Design & Manufacturing (2015 Nov-2016 Jul)

Ability Composites Colorado

- Program Mastercam & operate Onsrud 5 axis machine during production runs to ensure quality parts
- Analyze drawings, sketches, & design data
- Determine dimension and configuration of cuts, selection of cutting tools, & machine speeds & feed rates
- Solidworks CAD Assemblies and Drawings.
- Conform to AS9100 standards. (Certified AS9100)

Structural Steel CAD Designer/CNC Programmer (2015 Aug-Nov)

Big R Bridge Colorado

- Convert all 2D designs to 3D for BIM implementation
- Support engineers with CAD drawings and detail dims.
- Solve problems with complex manufacturing issues

Mechanical Design Engineer (MEP) (2015 May-Aug)

Trautman & Shreve Colorado

- Layout utilizing BIM/CAD (AutoCAD/Navisworks Manage)
- Provide calculations using PTC Mathcad
- Coordination meetings with other Trades

3D CAD/BIM MEP Engineer (2014-2015)

Trimble Colorado

- Support all products for Trimble MEP Products
- 3D laser Scanning using (Total Robotic Stations), RealWorks, Pipe Designer 3D, Duct Designer 3D, Trimble Field points, Sketchup Professional, Navisworks, AutoCAD, and Revit.
- Design 3D Models for use in new product releases.

CAD Engineer/CNC Programmer (2013-2014)

Advance Tank & Construction Colorado

- Model and detail Storage Tanks in AutoCAD and Inventor for the Oil and Gas Industry.
- Output NC Code for Plasma Cutting Tables i.e. Burny 10 and Messer Tables.
- Import models and analyze new designs in Ansys.

Network Administrator (2010-2011)

MeliTours Thessaloniki Greece

- Upgraded NT4.0 system to 2008R2 Servers

- Provide Network Solutions and Architect Server Farms.

Application Developer (2009-2010)

Apogee Systems Thessaloniki Greece

- Lead Programmer for Online Application Development
- C++/Ajax/Flex

3D Designer & Manufacturing (2008-2009)

Kotis Toys Thessaloniki Greece

- Design 3D assets using Autodesk AutoCAD, Maya, Solidworks, and ZBrush.
- Design promotional toys, facades, and CNC sculpted foam displays for Customers.
- Develop toys and playgrounds that conform to ISO and European Standards.
- Communicate with various manufacturing companies for quality and standards for materials.

Technical Analyst/Consultant (2004-2007)

Autodesk Consulting Sweden

- Provided CAD/CAM education services for Automotive design in Gothenburg Sweden.
- Organized training for Seminars demonstrating new release features in Solidworks and Alias Studio Tools
- Inform and educate company employees design workflows, procedures and enhancements.
- Train staff designing complex assemblies and surfaces.

CAD Design Engineer (2000-2003)

Transperformance Colorado

- Design and develop computer controlled mechanical device for musical instruments.
- Provided technical advice and direction to engineers.
- Research & Development process and Manufacturing of mechanical components.
- Responsible for parametric modeling and Complex Assemblies using Solidworks.

3D Workstation Support (1998-2000)

Hewlett Packard Colorado

- Provided guidance, assistance, coordination to Support HP Visualize workstations focused on CAD & Engineering applications.

Sound Engineer (1992-1996)

Unitone Studios/Warner Brothers Records/Polygram-Polydor California/Colorado

- Assistant sound engineer for Various Recording Studios.
- Setup Rooms for analog & digital recording applications.

EDUCATION

Colorado State University (1989-1991)

Studied CAD/Robotics/Computer Science/Math

GPA (3.0/4.0) (1 year remaining for BSME Online Degree program)

Aims Community College (1986-1988)

Studied Math/English/Computer Science/CAD Drafting

GPA (3.8/4.0)

Illinois Community College (1985-1986)

Enrolled in Mechanical Engineer Program

Poudre High School (1985)

Graduated High School Diploma

COMPUTER SKILLS

CAD Applications:

Solidworks 1999-2018

Ansys Workbench 15 (CFD, FEA), SpaceClaim

MasterCAM X3-2017

SolidCAM 2016-2018

PTC MathCad, Creo 3.0 (Formerly ProE/Wildfire)

Autodesk AutoCAD, Maya, 3dsmax, Advanced Steel, Inventor, Alias StudioTools

Catia V5

Vericut

Cimco Edit