

Matthew Holewinski

1585 Middlecoff Court Columbus, OH 43228

T: 614 507 2074

E: Matthew.Holewinski@Gmail.com

W: <https://MatthewHolewinski.com>



Summary

I'm a 2D/3D design specialist with extensive experience in:

- **3D Modeling, Rendering and Animation** for mechanical design, product design, architecture, interior design and conceptual visualization
- **2D Layout** documentation, elevations and annotation
- **Project Management** in project timelines, QA and deployment
- **Interpersonal Skills** in verbal, written and digital communication with sales, management, clients and customers
- **Training and Social Media Content Creation** utilizing video, written documentation, PDF, and online resources for presentations, demos, training and tutorials
- **Design Process Workflow** knowledge from project based user experience
- **Quality Assurance** working directly with developers, clients and customers in the areas of testing, research and development, user experience feedback and quality control
- **3D Printing** including model preparation, analysis, maintenance and post processing
- **Virtual Reality / Augmented Reality** application asset development and testing

Experience

Senior Application Engineer, AutoDesSys, Inc.
Columbus, Ohio — November 1995 to April 2016

Job responsibilities include 3D modeling, rendering, animation, 2D layout, and 3D printing of design projects. Assisted and supported sales by interacting with customers and project managers. Managed quality assurance. Responsible for timeline management and keeping good communication with all individuals and aspects of a project. Maintained proficiency in related technical expertise of industry software and trends.

Accomplishments:

- Performed 3d modeling of design projects using solid, surface, NURBS, SubDivision, parametric, and polygon based modeling
- Performed 2d layout documentation of design projects using associative and nonassociative links, elevations and annotations
- Created a wide range of visualization renderings from abstract to photorealistic
- Generated animations for walk throughs, design intent, proof of concept, peer reviews and promotional material
- Responsible for creating, implementing and performing training classes for colleagues, sales, marketing and customers
- Worked directly with sales, customers and developers regarding function and usability
- Created and implemented testing procedures, protocols, and checklist for testing
- Liaison for transferring customer experience and feedback to management and developers
- Involved with entire product development process including installation
- Experienced in 3D printing including model prep, analysis, support structures, printing, post processing, and machine maintenance
- Generated Virtual and Augmented Reality assets

Mechanical Engineering, Owens Corning Science and Technology Center Granville, Ohio — November 1992 - November 1995

Job responsibilities included 2D and 3D mechanical design projects in both the corporate engineering department and the research and development center for 3D conceptual design, assembly models, animation analysis and fabrication in small and large project team environments.

Accomplishments:

- Integral member of research and development team in the conceptual design, construction design, fabrication, and installation of new products and manufacturing processes
- Utilized 3D computer modeling in research and development department to design mechanical components and assemblies for fabrication and testing
- Supported numerous mechanical design projects including load calculations, drive calculations and component specifications while conforming to issues concerning maintenance, ergonomics, and safety
- Conducted animation analysis of computer models to assist design engineers and installation personnel with form, fit, and function of design and assemblies
- Participated in exporting solid models to Finite Element Analysis (FEA) for computational fluid flow analysis
- Responsible for scheduling and supervising installation support
- Project leader of 3D computer modeling implementation team. Duties included hardware/software specifications, CAD software training programs for engineering department, and future development strategies

Design and Engineering, Henry Filters, Inc. Bowling Green, Ohio — March 1986 - November 1992

Job responsibilities included 2D and 3D design work in both mechanical and electrical disciplines designing industrial coolant filtration systems for the automotive, aerospace, and various manufacturing industries.

Accomplishments:

- Responsible for project management including project engineering, product design, component specification, safety allowances, fabrication and Research & Development
- Initiated and implemented parametric design tools and standards for CAD that dramatically reduced engineering time and greatly increased design efficiency
- Created 3D computer generated graphics used on specialized control panels
- Hands-on experience machining parts from computer designs

Education

Bachelor of Engineering Technology - Mechanical Engineering Major
University of Toledo — June 1994

Associate of Applied Science - Mechanical Engineering Technology
University of Toledo — August 1990

Associate of Applied Science - Electronics Engineering Technology
Owens College — June 1987

References

Available upon request.