

MATT CLATWORTHY

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EDUCATION

2004 - 2008

UNIVERSITY OF HOUSTON

Houston, TX

BACHELOR OF SCIENCE IN INDUSTRIAL DESIGN

SKILLS

COMPUTER

Adobe: Photoshop, Illustrator,
InDesign

Programming: Python, VBA
3DSMax

Vray & KeyShot Renderer

CATIA V5
Solidworks
Abaqus FEA

Rhino3D

AutoCAD

Excel

TECHNICAL

Complex Surface Modeling

Photorealistic Renderings

Drafting

Website Design

Graphic Design

Product Animations

PERSONAL

Detail Oriented

Self Motivated

Reliable

Quick Learner

Goal Driven

Innovative

RELEVANT EXPERIENCE

2013 - Present

U. S. STEEL TUBULAR PRODUCTS

Houston, TX

SR. PRODUCT DEVELOPER

- Run Design Optimization studies and validation FEA's for threaded pipe connections
- Develop several complex Python scripts for Abaqus in order to automate FEA Pre/Post processing; reducing work flow by over 90%
- Analyze Product Family FEA data to ensure sealability and structural performance is consistent based on API 5C5 Testing Standards
- Create Photo Realistic Renderings of products for the marketing department
- Hardware and Software Administrator for my department, including managing a Linux HPC

2009 - 2013

TORQUELOCK / GANDYTEC

Conroe, TX

DESIGNER

- Involved in the design of multiple premium pipe connections used throughout the world
- Set up and evaluate Finite Element Analysis models that are properly meshed and defined
- Responsible for creating accurate 3D models from engineers sketches and drawings
- Develop manufacturing, inspection, and gage drawings while checking for anomalies
- Coordinate with suppliers to order inserts and overlays that are required for manufacturing
- Developed corporate identity by providing: website development, brochures & presentations

2009

GRAVITAS\VIZ

Houston, TX

3D MODELER

- Part of a team that provides Architectural Renderings for a wide range of clients
- Modeled over 100 objects: Everything from appliances, computer equipment, restaurant supplies, furniture, hospital equipment, to HESS trucks

2007 - 2009

UNI-FORM COMPONENTS

Houston, TX

DESIGNER

- Introduced 3D CAD into the manufacturing process with Solidworks and FASTBlank
- Developed a technique that significantly reduces manufacturing time and uses less material
- Responsible for producing CNC laser cut drawings for \$100,000+ projects
- Designed metal dies for pressed parts with shop and assembly drawings

2005 - 2008

UNIVERSITY OF HOUSTON

Houston, TX

TUTOR - COMPUTER AIDED INDUSTRIAL DESIGN

- Give students advice on how to properly approach modeling their own designs
- Troubleshoot modeling problems: Failed fillets, poor surface continuity and surface errors
- Teach students how to render with VRay, including texturing and animation in 3DSMax

AWARDS & CERTIFICATIONS

2010 +

CERTIFIED CATIA AND ABAQUS PROFESSIONAL

Houston, TX

- CATIA V5 Advanced Surfacing, Metal Inelasticity with Abaqus, FE-Safe

2008

UNIVERSITY OF HOUSTON - COLLEGE OF ARCHITECTURE

Houston, TX

- Technology award for significant accomplishment using computers in design inquiry