# The Journey: Cast & Machined Components

CUSTOMER JOURNEY MAPPING

cadline

## WHERE AM I NOW?

**I am a design engineer with a focus on designing Cast and Machined components.** I produce many variations of my designs for different customers. I am sometimes required to produce stress analysis reports and design options for some of my customers.

## Best in class

## OUTCOME:

Our business has experienced a dramatic improvement in productivity and flexibility following a move to 3D. FEA capability allows the business to iterate to the best possible solution and bring indicative stress analysis reporting in-house. InventorCAM enables in-house tool path and G-Code generation. Autodesk Vault has delivered an ability to copy and modify existing designs quickly and easily and ensure that they are easily able to maintain detail documentation for regulatory purposes.

1

### PROJECT PLANNING

Getting your organisation prepared for change

2

### TRANSITION TO 3D

Training your team in the core design technologies

3

### ANALYSIS AND AUTOMATION

Developing advanced design and productivity capabilities

4

### DATA MANAGEMENT

Developing an efficient design and project data environment

5

### ADOPTION SUPPORT

Technical specialists working with you all the way to ensure your project is a success

# Cast & Machined Components– Adoption of Technology and Services

| PROJECT PLANNING | TRANSITION TO 3D | ANALYSIS & AUTOMATION | DATA MANAGEMENT | ADOPTION SUPPORT |
|---|---|---|---|---|
| Getting your organisation prepared for change | Training your team in the core design technologies | Developing advanced design and productivity capabilities | Developing advanced design and productivity capabilities | Technical specialists with you all the way to ensure your project is a success |

## ADOPTION

### PROJECT PLANNING SERVICES

**Assess**
- Customer profile
- Process profile
- Environment profile
- High-level recommendations

**Plan**
- Deliver a "statement of work"
- Implementation start and completion dates
- Timeline of tasks to be completed
- Expected end results of the implementation

**Solve**
- Execute the "statement of work"
- Keeping on track
- Identify, what, when and who
- Document and track requirement changes
- Deliverables: data migration, software, IT infrastructure configuration, back up, software install, training

**Confirm**
- Verify the success of the implementation
- Plan for future projects
- Ensure support needs are met
- Other services required

### TRAINING SERVICES

**Inventor Essentials Training**
- Principles of 3D parametric part design, assembly design
- How to capture design intent
- Learn using the proper workflows for creating intelligent 3D parametric parts
- Creating, placing, and constraining custom and standard components
- Simulating mechanisms, animating assembly designs
- Checking for interferences

### TRAINING SERVICES

**Introduction to FEA**
- Driving Dynamic Simulation and Stress Analysis
- Validate design prototypes
- Create dynamic simulations

**InventorCAM Training 2.5D / 3D / Mill - Turn**
- Creating CAM Parts from Inventor CAD models
- Introduction to Operation types (Profile, Pocket, Slot, Drill, etc.)
- Geometry definitions (3D Models, 2D drawings)
- Rest material options
- Basics of Multi-Sided Machining including indexial 4th axis and 3+2 working
- Tool types and Tool tables
- Producing G-code
- 3D Rough and Finish strategies
- Geometry definitions
- Rest material options
- Tool types and tool tables
- HSM strategies for Roughing and Finishing
- Boundary definitions
- Dedicated Rest material strategies
- Associativity - 3D model/toolpath
- Lead-in / lead-out & Linking strategies

### AUTODESK VAULT

**Data Management Implementation**
- Industry leading technologies
- Robust and secure data environment
- Automation of costly manual tasks
- Manage design and project cycles

**Vault Implmentation Project**
- System scoping and documentation
- Vault administrator training
- System configuration, installation and testing
- Automation elements - PDF creation, email notification
- Collaboration tools configuration
- Vault user Training
- Go live assistance
- Final system documentation handover

### ADOPTION SUPPORT

**Working with you to deliver your projects with your new skills and workflows**
- Industry experts integrated into your team
- On site, On project assistance
- Designed to get the best from the software and user that directly benefits project specific requirements
- Maximises your return on investment and increase user adoption of technology

**Book your FREE Business Discovery Meeting to see how the team can help you**

www.cadline.co.uk
01784 419 922
sales@cadline.co.uk
cadline