The Journey: Plastic Injection Engineer

CUSTOMER JOURNEY MAPPING

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WHERE AM I NOW?

I am a design engineer with a focus on designing Plastic injection moulded parts. I produce many variations of my designs for different customers. I have an interest in seeing if the parts are mouldable, understanding moulding cycle times and the design of the tooling (injection mould).

Best in class

OUTCOME:

Our business has experienced a dramatic improvement in productivity and flexibility following a move to 3D. Inventor Tooling allows for easy analysis of injection moulded components to check for possible moulding issues and also assists with Mould design. 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

Plastic Injection Engineer– 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

Inventor Freeform Modelling Training
- Learn to use freeform commands to enhance a model to create a more visually compelling design.
- Starting modelling geometry using the base Box, Quadball, Cylinder, Torus and Sphere basic closed body shapes.
- Use the Bridge command to connect multiple freeform bodies.

TRAINING SERVICES

Inventor Tooling Training
- Understand how to create accurate mold tool designs directly from digital prototypes.
- Learn how to use the Moldflow analysis and family mold functionality and mold libraries.
- Automate the creation of 2D professional single or batch drawings.

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

Dta 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

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