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Configurable Designs and Tolerancing for Machining with Autodesk HSM

Gavin Bath
MFG / CAM Technical Specialist

@thewap
#InstaMachinist
Introduction
About the speaker

Gavin Bath - @thewzap on insta

- CADPRO Systems Ltd, Christchurch, NZ
- Inventor since R4 / HSM since InventorHSM beta
- Aerospace / Defense / Primary Industries Materials Handling
- Coding - .net / node js
- meetup.com/fusion360chch
- Coffee / CNC / Flying / Family
Configurable Models
Vise (Demo)
iLogic (Demo)
iLogic Forms (Demo)
iLogic Rules (Demo)
Template (Demo)
In-cycle Probing
1. Finish bore.
Probing (Demo)
Model tolerancing for CAM
Tolerance (Demo)
Conclusion
Learning Objectives

• Learn how to use iLogic in Inventor to build configurable part/work holding templates for CAM
• Learn how to use model and toolpath templates in Autodesk HSM to save programming time
• Learn how to use Autodesk HSM probing cycles as a QA check on a machined dimension, during the production process
• Learn how to specify tolerances on model parameters and use these to control targets for machined dimensions
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