



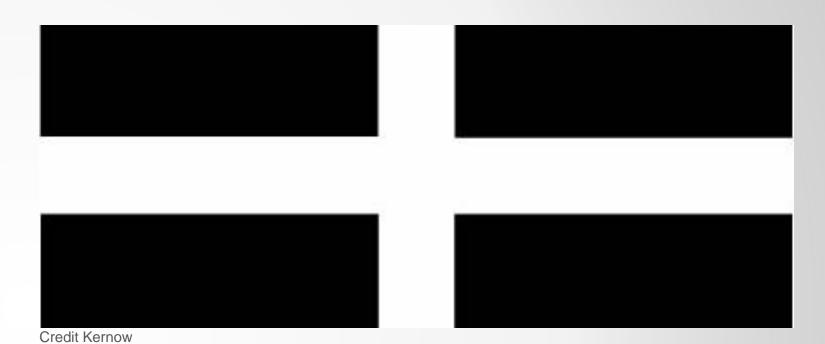






## **SCOTT MOYSE**

- Proud Cornishman
- Motorsport Engineering
- New Zealand
- Marine Industry
- 10 Yrs of CAD/CAM/CNC
- CADPRO 2 Months





Credit Kernow



#### **GAVIN BATH**

- CADPRO, Christchurch, NZ
- Inventor since R4
- Vault Pro since Productstream
- Aerospace / Defense / Primary Industries Materials Handling
- Vault / Inventor Customisation
- Coffee / CNC / UAVs / Geocaching



Credit No Credit



Credit No Credit





## **TOPICS COVERED**

- iProperties
- BOM
- Sheet Metal
- **2D**
- **3D**
- Vault
- HSM Express
- HSM Works



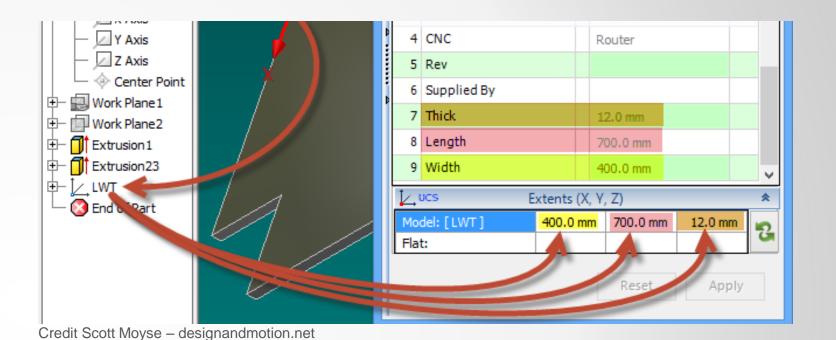
Credit Dmitry Kalinovsky - 123rf.com

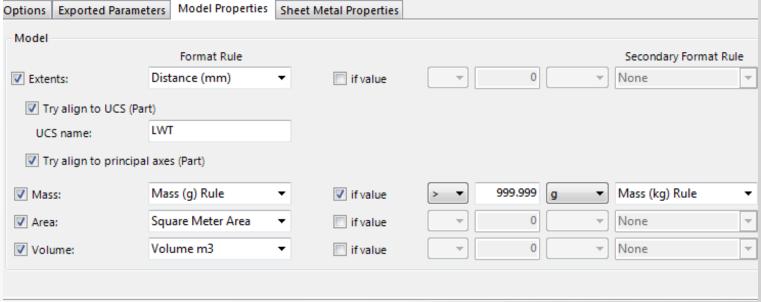




## iPROPWIZ - LEVERAGING METADATA

- Configuration
- Lists
- Expressions
- Component Extents
- UCS
- BOM





Credit Scott Moyse – designandmotion.net







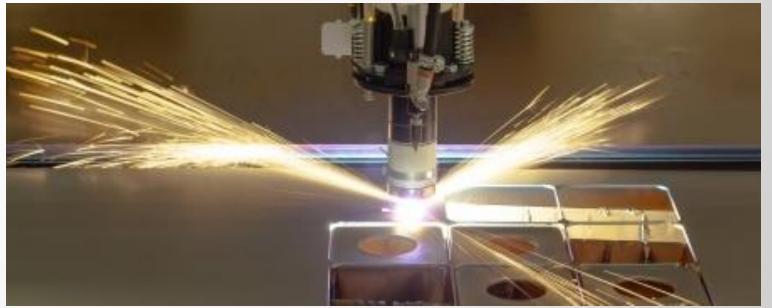


# 2D CNC CUT FILES

- Flat Patterns
- Exporting Faces
- Exporting Sketches
- Using Drawings
- Centreline Text



Credit Tomasz Nieweglowski – 123rf.com



Credit Andrey Eremin – 123rf.com





## **FLAT PATTERN EXPORT**

- Manual creation
- Layer Control
- Format Options
- Demo

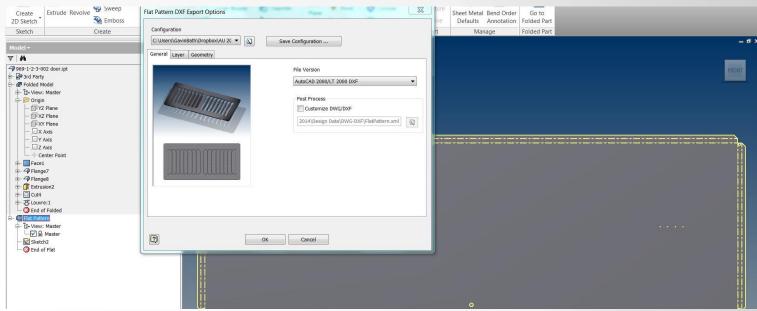


Image courtesy of CADPRO Systems

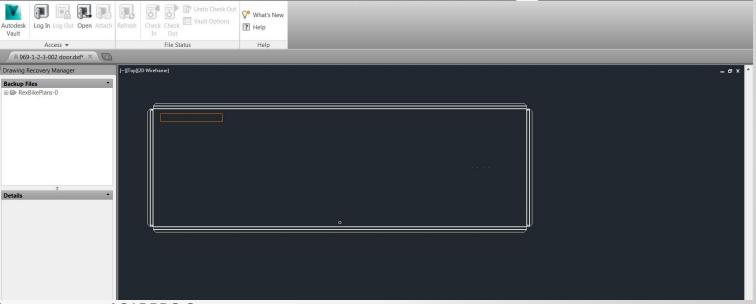


Image courtesy of CADPRO Systems





#### **FLAT PATTERN EXPORT**

- Automation Opportunity
- Supplier Requirements
- Output Formats
- Metadata Requirements
- Data Transmittal

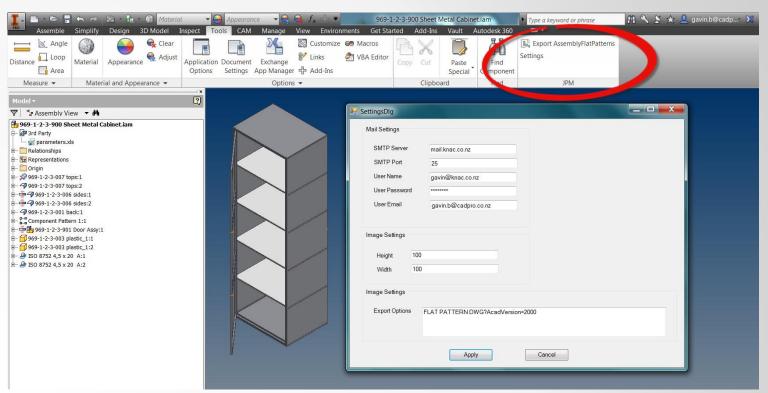


Image courtesy of CADPRO Systems

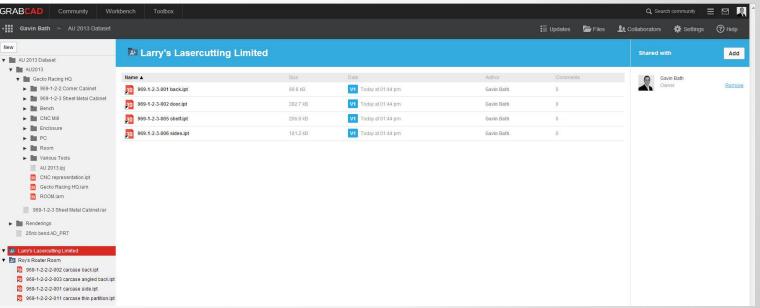


Image courtesy of GrabCAD



## FLAT PATTERN EXPORT ADD-IN

#### Pros:

- 1-Click from Assembly
- **Quantity Accuracy**
- All Profiles Attached
- Ready to Forward to Supplier

#### Cons:

- Files Stored in Email Chains
- Can't "Fudge" Quantities

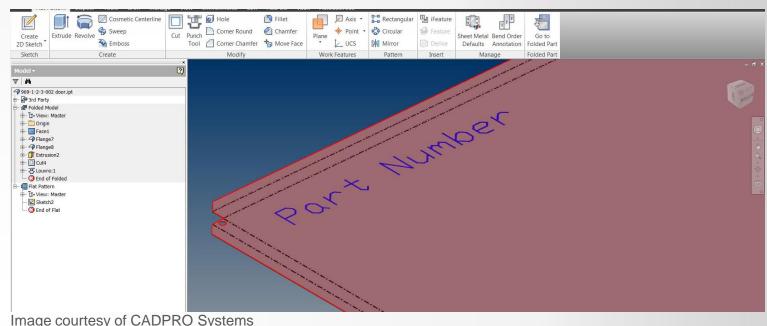


Image courtesy of CADPRO Systems

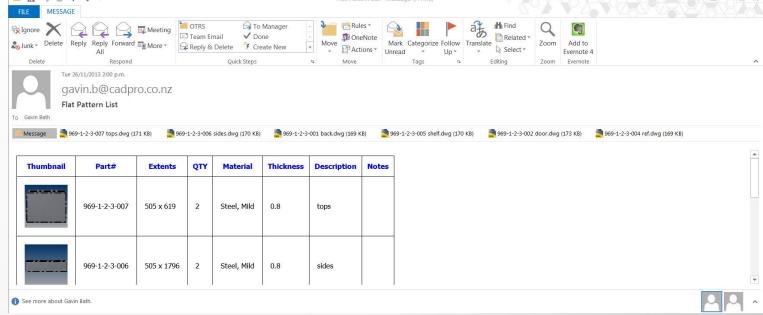


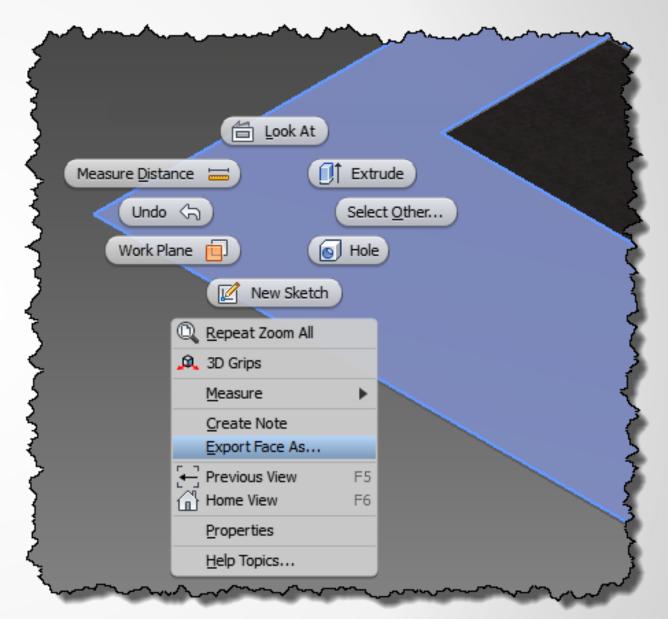
Image courtesy of CADPRO Systems





#### **EXPORT FACE**

- Simple
- Closed Polylines
- No Features
- No Text Export

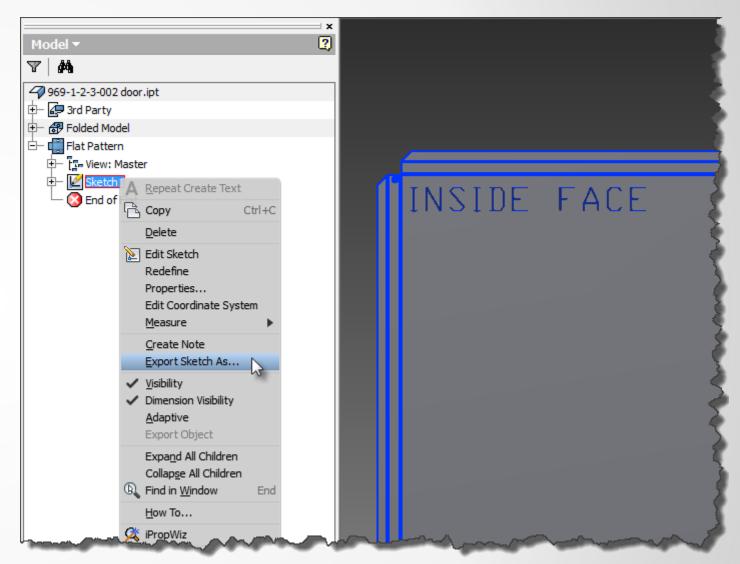


Credit Scott Moyse - designandmotion.net



## **EXPORT SKETCH**

- Simple
- Feature Projection
- No Layer Control
- No Text Export

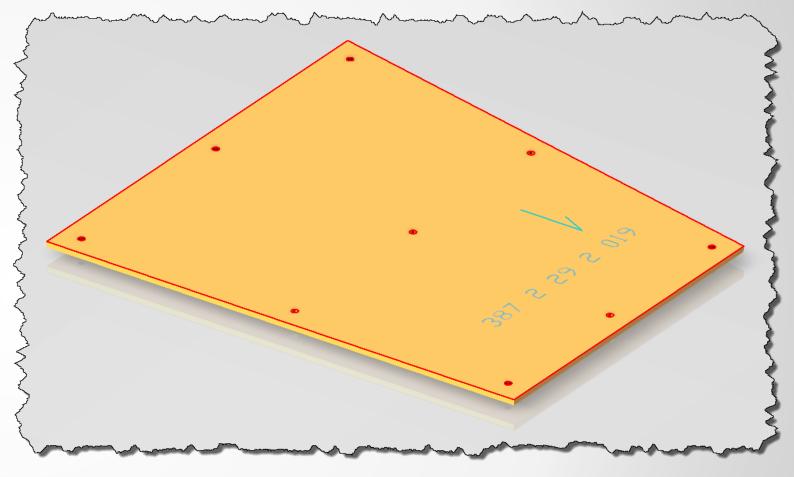


Credit Scott Moyse – designandmotion.net



### **CREATE A DRAWING**

- Associative Cut Files
- Color/Layer Control
- Center line Text
- Open Geometries
- A Single File



Credit Scott Moyse - designandmotion.net



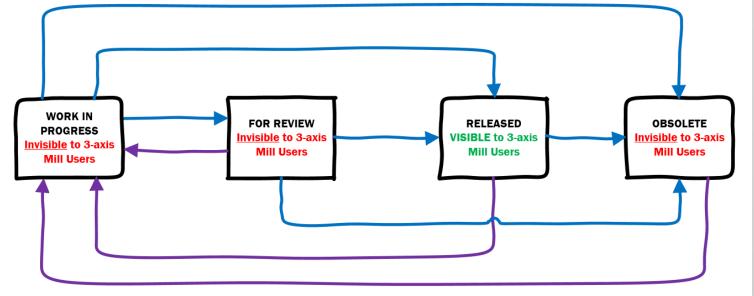


## **DELIVERING MANUFACTURING INFORMATION**

- Vault Basic
  - Custom Views
  - View Filters
- Vault Professional
  - Users
  - Grouping
  - Categories
  - Lifecycle
  - Security/Access



Credit Autodesk

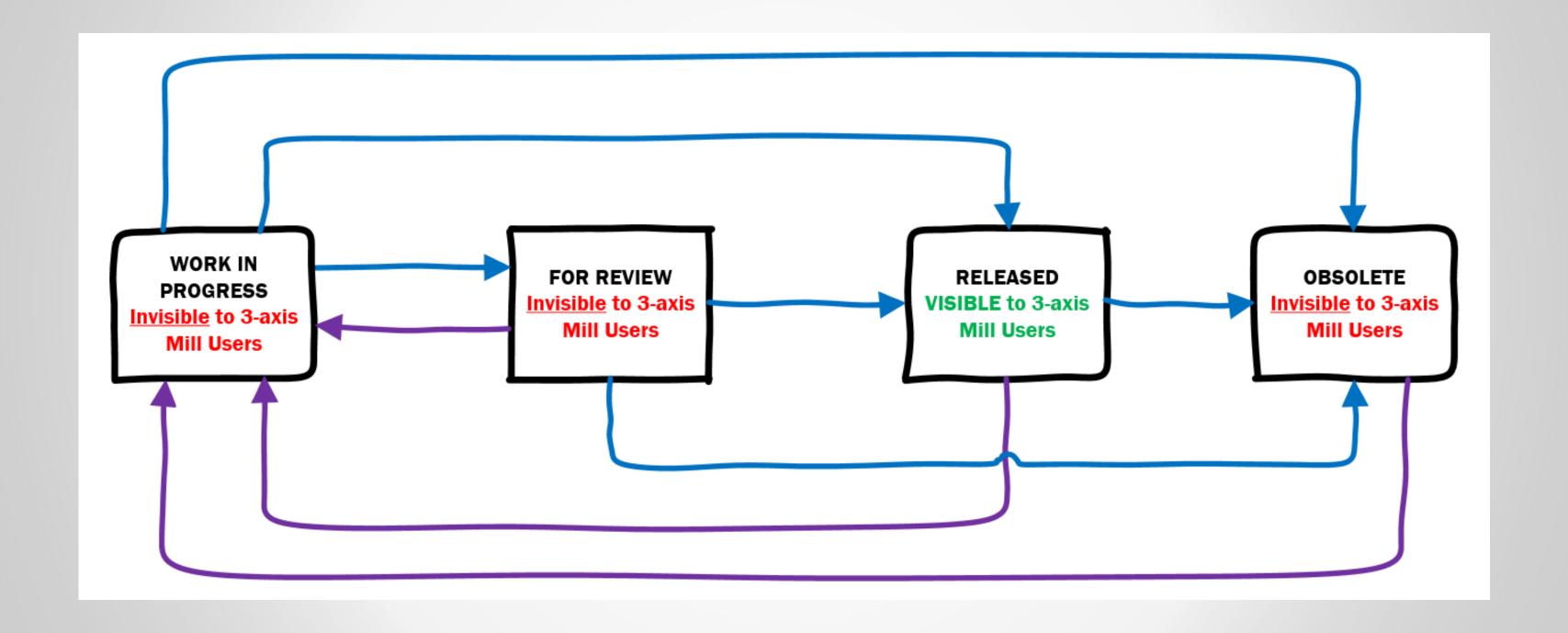


Credit CADPRO Systems Ltd





## **GENERIC VAULT PROFESSIONAL LIFECYCLE**









## 3D CNC CUT FILES

- Leveraging Metadata
- Component Sorting
- Assemblies for CAM
- Inventor Toolpathing



Credit Stepan Popov – 123rf.com



Credit Stefan77 – 123rf.com



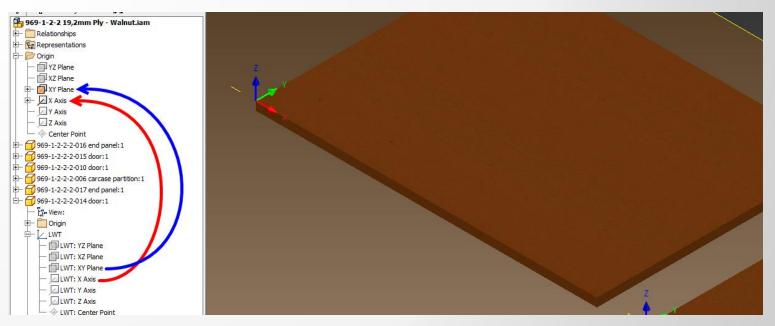


# **ASSEMBLY CUT FILES**

- Associative Cut Files
- Component Extents
- Feature based Machining
- Manual Constraints
- No Center Line Text



Credit CADPRO Systems



Credit CADPRO Systems





## **INVENTOR HSM EXPRESS**

- Free Addin for Inventor
- 2.5D Machining
- Fully integrated
- Try before you buy

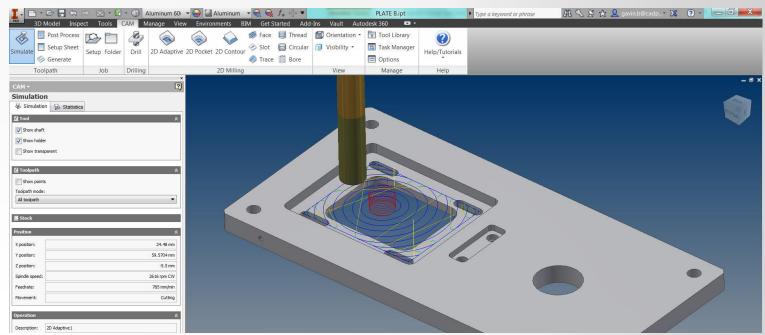
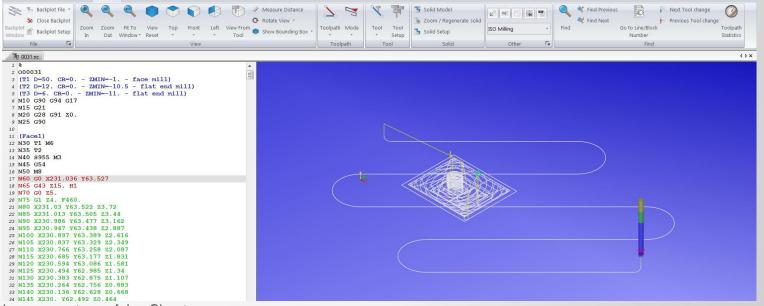


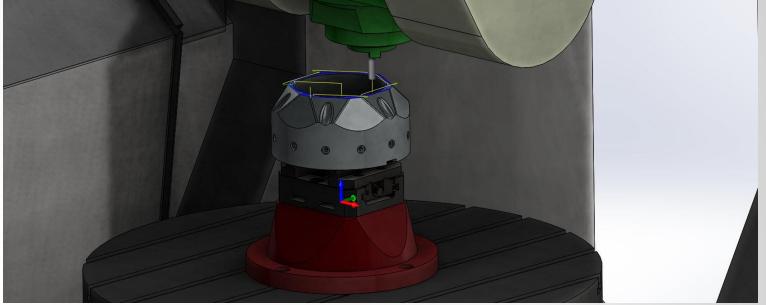
Image courtesy of CADPRO Systems





## **HSM WORKS**

- 5 Axis Machining (3+2)
- Multi-axis Simultaneous
- Stock / Machine Simulation
- 3D Operations
- Turning



Credit engineering.com



Credit Autodesk







