



### Q2: Should I be the person driving this?

Keep in mind the following:

The Hardware itself must be reliable, accurate and flexible enough for your needs, but the programming of the CNC (CAD/CAM) software is where you will spend **MOST** of your time.

If the Machine is working properly, then the challenges and day-to-day rewards (or frustrations) fall into the category of Software and Talent, not on the Hardware.



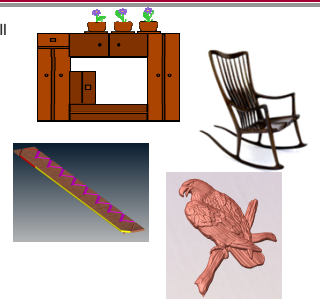
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### Q3: What am I making with the CNC?

This is a very important question, because it will drive all aspects of the acquisition, from selecting the right CNC machine, to the Design Software (CAD) to the Manufacturing Software(CAM).

Once again, you must be honest:

- Are you interested in "pushing the boundaries" of the CNC, or will simple Casework suffice?
- Is the CAM specialized for a specific Industry/Application like Stairs, Furniture?
- Does it do Everything I need it to do?



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### Q4: Is this CAM Software Machine-Specific?

You must ask the questions: What happens if I switch CNC Brands? Do you have Multiple CNCs to deal with?

You may have HUNDREDS of hours invested in your designs as well as the time it took for you to CAM them. Adding to the heartburn is the time and training you invested in Mastering your CAM System.

Will all this investment go away if I buy a new/different CNC, or can my CAM System effortlessly transition to a new system?



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### Q5: What the heck is a Post-processor?

A Post-processor is a LINK which TRANSLATES the milling-drilling-routing-sawing instructions you see in your CAM Screen into machine-specific motion.

If you are getting the CAM from the Machinery OEM, then this is typically not an Area for concern. If, however, if you are independently shopping around for CAM, you must be VERY vigilant of these facts:

- Is the transfer of data from CAM to Machine seamless? Do I have to change anything?
- Are the instructions given to the machine taking FULL Advantage of the machine's capabilities?
- Are we controlling the machine with Best-Practices?



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**Q6: What kind of training and support is available?**

The best software in the World, is only as good as the person behind the clicker.

Ask:

- How long is your introductory Course?
- What is the Cost per person?
- Do you offer Regional Training?
- What is the support policy and available hours?



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**Q7: How much is this system?**

CAM Companies, like any other company, are in business to create revenue.

Your **job** is to answer the very difficult question of what is the **VALUE** of the tools you are being sold, as they relate to your business.

A "free" software package may be the most expensive thing you will ever buy. Time is the most scarce resource we have. Conversely, a really expensive package, may not address all aspects of your fabrication needs.



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**Q8: Can I DESIGN in it, or is this only CAM?**

The reality is that most packages you will find today on the Market, including many Vendors with important presence at AWFS, already have a CAD Interface.

You may choose to buy a particular CAD/CAM System and basically ignore or minimize the use of their Design Features.

Additionally, you may choose to buy a CAD/CAM System for it's Batch-Processing and Automation capabilities.



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**Show me where my Money is going!**

**Demo! Demo! Demo!**

Hopefully, after asking yourself the previous questions, you will have narrowed it down to 2/3 Candidates. What now?

Ask for a Demo! Make the Software Sales staff show you how their solutions will work for you. Whenever possible use your OWN files/ideas.

Only by asking for a real-life demo will you know what truly is involved in Fabricating your designs and sending them to the CNC!



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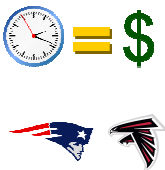
### It's NEVER too late!

Going back to where we started... Time IS Money!

A tremendous mistake I always see is that people forget to challenge the Software Maker. If there is something you don't like, or you think is taking way too long to accomplish, SEEK a better solution!

Just because you've been using a package for 5 years doesn't mean that you shouldn't ask the questions in this presentations every 3-5 year cycle.

Labor is the most expensive thing. Software Labor is even more so.



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### Questions Anyone?



**Time to grill the Presenter!**

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### Some Useful Links

Conducting my research for this Presentation, I ran into a few links that are a good source of information, to help you go deeper into the Question of CAM:

<http://bobcad.com/how-to-choose-a-cad-cam-system/>

<https://www.hypertherm.com/en-US/learn/cutting-education/understanding-cadcam-software/considerations-when-choosing-a-cadcam-nesting-software-solution/?region=NART>

[http://www.woodweb.com/knowledge\\_base/Selecting\\_the\\_Right\\_CAM\\_System.html](http://www.woodweb.com/knowledge_base/Selecting_the_Right_CAM_System.html)

<http://m.americanmachinist.com/cadcam-software/justifying-investment-cnc-technology>

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### Specific CAM Suggestions

<p>If you are looking to Process Solid Files, you may want to consider:</p> <ul style="list-style-type: none"> <li>• Alphacam</li> <li>• MasterCAM</li> <li>• Solid-CIM</li> <li>• SolidCAM/HSM</li> </ul>	<p>If you want to batch-process DXF Files, perhaps from a Cabinet Design Software:</p> <ul style="list-style-type: none"> <li>• Alphacam</li> <li>• MasterCAM</li> <li>• EnRoute</li> <li>• ArtCAM Insignia</li> </ul>
<p>If you are planning on 'Artistic' or 'Carving':</p> <ul style="list-style-type: none"> <li>• Alphacam Art / Vetric's Aspire</li> <li>• ArtCAM</li> <li>• MasterCAM Art</li> <li>• EnRoute</li> </ul>	<p>If you need PARAMETRIC CAD/CAM and/or API:</p> <ul style="list-style-type: none"> <li>• Alphacam</li> <li>• MasterCAM</li> </ul>

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