

Laser & CNC Wood Inlay with ImagePaint Software with Vincent Doan July 27-31, 2020

Provided by students:

- A Windows 7 or Windows 10 laptop with Adobe Illustrator CS6 or the latest CC installed.
- Scroll wheel mouse.
- Thumb drive of at least 100 MBs.
- Hearing protection.
- Eye protection.
- You may also bring your own CNC systems (optional).

Provided by instructor:

- Step-by-step manual written for the class.

Class Outline:

Day 1

- Marquetry/Inlay computer design workflow
- Installing ImagePaint software
- Creating and managing a digital material database
- Designing vector artworks with Adobe Illustrator
 - o Auto tracing a hand drawn picture to vectors
 - o Auto tracing a photograph to vectors
 - o Editing a professional vector artwork
 - o Hand tracing a photograph
- Calibrating the laser for ImagePaint

Day 2

- Preparing a vector artwork for Project 1
- Editing vector artworks with ImagePaint
- Verifying vector artworks with ImagePaint
- Applying JPEG images of wood veneer to vector shapes
- Creating toolpaths for lasers and CNC routers
- Cutting wood veneers with a laser and a CNC router
- Updating the JPEG images to the material database
- Assembling the cut pieces

Day 3

- Using advance CNC design techniques
- Designing V-Carve Embellishments for Design 1
- V-Carving the design with a CNC router
- Completing Project 1 (assembling, sanding and finishing)

Day 4

- Customizing CNC workflow
- Editing the material database
- Editing the CNC tool database
- Adding custom CNC molding tool
- Creating CNC design automation presets

Day 5

- Preparing a vector artwork for Project 2
- Creating a 2D and 3D simulation for the design
- Machining the design with the CNC router
- Wrapping up

Vincent Doan
Dondoa7@gmail.com