Maze Project

**Description:** We will model and fabricate mazes designed by 7th graders at Asheville Middle School. The model designs will be determined by election: one vote per AMS and UNC Asheville student.

**Deliverables:**
- 2D graph
- 3D model
- G-code needed to fabricate the mazes.
- Successful simulations from 4 views before fabrication.
- Fabricated maze.

**Timeline:**
- **2/25/08** Project Announced
- **2/27/08** First Visit to AMS
- **3/10/08** Evaluate graphs from AMS. Give feedback to the AMS students.
- **3/18/08** Receive graph revisions from AMS, vote along with AMS students for 7 to be fabricated.
- **3/25/08** Begin working with CNC Mill.
- **3/25/08** Maze bottom design and g-code due.
- **3/31/08** Models of mazes due. In class critiques of the models.
- **4/07/08** Maze path fabrication due.
- **Mid-April** Present mazes to AMS.

**Requirements:**

The maze must be square and have side dimensions of 2” or 3”. Our smallest end mill is 1/8” so the “trough” must be no smaller than 1/8.” The paths cut by the end mill can have sharp inside corners but not sharp outside corners.