M1.5 Ingram Hall Commemorative Penny Press

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Problem

- Commemorate the opening of Ingram Hall, College of Science and Engineering by designing a penny press machine
- Demonstrate the capabilities of the new Ingram Hall Makerspace by utilizing as many tools in unique ways as possible

New Tools Available:
- CNC Mill
- CNC Plasma Table
- Welding Shop
- Wood Shop
  - CNC Lathe
  - Fiber Optic Laser
  - WaterJet
  - 3D Printers
  - Laser Etchers

Process

After calculating the required force to properly press a penny, a press assembly was designed for in-house production.

A frame was designed to house all the components and provide the required safety and stability.

Adding to the theme of Ingram Hall, a pedestal was created to contain and support the assembly.

A large quantity of designs were created and polled for the best representations of Ingram Hall.

Penny Press Machine

Wood planed slats

All internal mechanisms CNC Mill/Lathe

Laser Etched descriptions and instructions

Fiber Optic laser cut acrylic

Hydraulic rolled tube wheel

3D printed coin delivery system

Waterjet cut marble drop pan

Plasma cut plaque

Welded and formed sheet metal base

Selected Penny Designs