FINAL PROJECT SHOWCASE

Friday, May 4th
10:30 – 11:30 AM

2040 Seamans Center
New Annex Design Studio

Smart product developed by our own students

COME SEE!

Sponsor: Department of Mechanical and Industrial Engineering

IE/ME 4650 Mechatronics Engineering for Smart Device Design
MECHAPONICS PRESENTS GROWBOT

Automated Plant Care System

• Monitors soil moisture, ambient temperature, light exposure
• Waters plants automatically
• Activates LED grow lamps
• Takes care of up to 12 plants
• Easy to use GUI
FLAT PRINTER
IE: 4650 FINAL PROJECT SHOW CASE
5/4/2018

See what we learned and what we got!!

We disassembled a Canon MG 2520 printer and hacked the paper roller encoder to build our own Flat Printer! We used the encoder signal to control a stepper motor used to realize y-axis movement. We will add a z-axis in the future and replace the ink with the particular powder to make 3D printable.

TEAM ALPHA:
Baizhuang Zhou
Fan Fei
Ziyang Xu
Draw a picture on a computer
Draw anything you would like

Uploads to our drawing machine
Our Machine will take your amazing drawing and create it before your very eyes

Watch as your masterpiece comes to life
In a short period of time the drawing you created will be presented on the whiteboard

2D DRAWING MACHINE

Presented by:

Mechatronics engineering on May 4 at 10:30
Our final project for mechatronics is the design and implementation of a mechatronic guitar, and we are coding a song to be played by various motors and servos through our Arduino kit. The system has combines two linear stages to create two axes: one for the pick and one for the slide.
Mechatronic Vending Machine

COME SEE!

The Vend-gineers
Joseph Julien, Austin Brehm, Thomas Niermeier

Display up to four different products OF YOUR CHOICE!
QUADCOPTER

Fully Autonomous or manually controlled package delivery

Demonstration: Delivering and dropping 100 gram package within grid system
➢ Friday at 00:00 in the Place