B111 Student Projects Lab
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Overview

- B111 Lab is a space for ECE students to work on their projects.
- B111 Lab has a vast selection of resources to assist with student projects.
- Lab team’s primary responsibilities are the maintenance and supervision of the equipment in the lab.
- This year the team made the following improvements to the B111 Lab:
  a. Set-up Octoprint for all the 3D printers.
  b. Created a B111 websites for where students can find information on the lab resources.
  c. Created quick start guides and videos for 3D printing.
  d. Got the dual extruder operational.
  e. Got the laser cutter ready for student use.
  f. The team also produced coasters for everyone in the ECE senior design class as a souvenir.

Octoprint

- This year we installed Octoprint on all 5 of the 3D printers in the lab.
- Each Octoprint setup has a web camera where students can monitor the progress of their print.

Website

- This year we created a website to keep students and team members updated on the lab.
- The website contains information on rules and services of the lab.
- https://projects-web.engr.colostate.edu/ece-sr-design/B111Lab/

Laser Cutter

- This year we created some tools that would help make the laser cutter more accessible for students.
- The team made some tools and instructional video of how to align the laser cutter.
- The team also made coasters for everyone in ECE senior design.

3D Printing

- This year we created a series of Quick Start Guides and Instructional Videos that go over the slicing and 3D printing process for students.
- We worked to get the dual extruder operational and consistently functioning for students to be able to use.