

Team Name: sddec21-11

Team Members: Colin Firth, Tary Todd, Aaron Martin, Chris Johannsen, Dale Young, Addison Ulrick

Report Period: Oct 11-Oct 25

Summary of Progress in this Period

- Started work on sending laser commands in MATLAB
 - Finished working on defect function
 - Finished Slicer GUI
 - Soldered Laser Interlock Circuit
 - Laser interlock working, but spot size is unmeasurable. Printing cube is no longer deliverable.
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Pending Issues

- Some team members still need lab training
 - Acquisition and in-depth understanding of oxygen sensor
 - Voxel generation needs to be tested in depth
 - Obtain admin permission for Tary Todd on the computer to install software from ETG
 - Homing function should be recalibrated once laser positioning is finalized.
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Plans for Upcoming Reporting Period

- Continue to review and understand the source code and the project overall
 - Create a Gcode Verification Program
 - Update Website
 - Measure spot size of pilot laser for calibration.
 - Document how Slicer and Defect code work.
 - Develop config files to give to the Slicer.
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