

Team Name: sddec21-11

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

Report Period: Sep 13-Sep 27

Summary of Progress in this Period

- Pilot laser turns on in software
 - Got camera working with video adapter and new power supply
 - Cleaned up lab
 - Started work on sending laser commands in MATLAB
 - Continuing work on defect function
 - Attached lens to laser
 - Added previous progress report to website
 - Created homing function for printer
-

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
 - Choosing Ethernet or Serial communication for the laser needs to be finalized
 - Obtain admin permission for the computer to install software from ETG
 - Obtain ethernet card/adapter from ETG
 - Homing function should be calibrated once laser positioning is finalized.
-

Plans for Upcoming Reporting Period

- Continue to review and understand the source code and the project overall
 - Continue to refactor the source code and convert from C# to MatLab
 - Finish developing the Slicer GUI
 - Create a Gcode Verification Program
 - Implement functionality to add defects to metal cubes
 - Update Website
 - Measure spot size of pilot laser for calibration.
-