

Team Name: sddec21-11

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

Report Period: Sep 27-Oct 4

Summary of Progress in this Period

- Started work on sending laser commands in MATLAB
 - Continuing work on defect function
 - Obtained admin permission for Dale Young to install software on lab computer
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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
 - Choosing Ethernet or Serial communication for the laser needs to be finalized
 - Obtain admin permission for Tary Todd on the computer to install software from ETG
 - Obtain ethernet card/adaptor from ETG
 - Homing function should be calibrated 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
 - 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.
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