EE/CprE/SE 491 - sdmay19-31:
Multi-Purpose Automated Robotic Mixer (mpARM)
Week 9 Report
November 4 – November 11
Client: Alexander Stoytchev/Brett Altena
Faculty Advisor: Alexander Stoytchev

Team Members

Drew Caneff — *3D Printer Specialist/CAD Designer/Accountant*
Amos Hunter — *Electromechanical Specialist/Meeting Scribe*
Brett Altena — *Meeting Facilitator/ Computer Vision Developer*
Kristian Wadolowski — *Report manager/Front-end programmer/Computer vision Developer*
Jase Grant — *Embedded Systems/ Assignment Manager*

Summary of Progress this Report

- **Continued 3D printing** – Optimized printing settings the ensure better quality prints and reviewed component models that have yet to be printed.
- **Ordered the last of the parts** – Approval for the last of the parts has been received, and the order request has been submitted.
- **Created early computer vision code** – An early version of our computer vision code has been started using the previously mentioned computer vision libraries as a base. The code runs on C and Python, and has been tested to show that it can detect bubbles on the surface of pancakes.

Pending Issues

- Find/confirm cost effective 3D printing
- Batter issues (Splashing, feeding, mixing, type, etc...)

Plans for Upcoming Reporting Period

- Continue 3D printing
- Disassemble popcorn machine for parts
- Continue work on Computer vision
- Continue pancake research

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Drew Caneff	➢ Participated in group meetings ➢ Received approval for last components ➢ Found optimal 3D printing settings ➢ Reviewed 3D parts	25	103

Amos Hunter	➢ Participated in group meetings ➢ Decided power supply ➢ Purchased materials for prototyping	13	75.5
Brett Altena	➢ Participated in group meetings ➢ Wrote C/Python code based on computer vision libraries	15	98
Kristian Wadolowski	➢ Participated in group meetings ➢ Compiled and edited weekly reports ➢ Writing and compiling technical reports	7	51
Jase Grant	➢ Participated in group meetings ➢ FPGA research	3	31

Gitlab Activity Summary

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Action: joined, Tue Sep 04 2018
Author: dvcaneff
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