

EE/CprE/SE 491 - sdmay19-31:**Multi-Purpose Automated Robotic Mixer (mpARM)**

Week 2 Report

September 10 - September 17

Client: Alexander Stoytchev/Brett Altena

Faculty Advisor: Alexander Stoytchev

Team MembersDrew 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**

- One meeting was held in this time frame.
- Lightning talk presentation materials were completed and presented
- The efficiency of our design was compared to other design options, research and deliberation of possible designs thus became our primary concern. The two most popular design choices were Robot arm and conveyer belt.
- Different types of flat top griddle were researched for use in the robot arm design.

Pending Issues

- A final choice must be made for the overall design of the project.
- Research multiple camera types that can be used to implement a computer vision library.
- Figure out the process for 3D printing
- Research different pancake mixtures to determine the best recipe
-

Plans for Upcoming Reporting Period

- Present compiled design research to the group, and make a final design choice.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Drew Caneff	<ul style="list-style-type: none"> ➤ Participated in group meetings ➤ Deliberated design decisions ➤ Created slides for lightning talks ➤ Researched machine designs and constraints 	5	12
Amos Hunter	<ul style="list-style-type: none"> ➤ Participated in group meetings ➤ Deliberated design decisions 	5.5	9.5

	<ul style="list-style-type: none"> ➤ Researched machine designs and constraints ➤ Produced research document for group 		
Brett Altena	<ul style="list-style-type: none"> ➤ Planned and participated in group meetings ➤ Deliberated design decisions ➤ Created slides for lightning talks ➤ Researched Camera/tripod options ➤ Researched griddle options 	5	13
Kristian Wadolowski	<ul style="list-style-type: none"> ➤ Participated in group meetings ➤ Deliberated design decisions ➤ Researched machine designs and constraints ➤ Compiled & edited weekly report 	4	8
Jase Grant	<ul style="list-style-type: none"> ➤ Participated in group meetings ➤ Deliberated design decisions ➤ Researched machine designs and constraints ➤ Further researched Micro-chip options 	4	7

Gitlab Activity Summary

 Action: joined, Tue Sep 04 2018

Author: dvcaneff
