

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

Week 3 Report

September 18 - September 25

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.
- Project plan assignment was completed and turned in.
- The robotic arm design was nearly unanimously decided to be our design of choice, however we will need to re-evaluate our project goals for this design.
- Early design documentation has started to be produced, and prototyping plans have been created.

Pending Issues

- 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
- Acquire the materials needed to begin prototyping

Plans for Upcoming Reporting Period

- Create detailed reports needed to begin prototyping.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Drew Caneff	<ul style="list-style-type: none"> ➤ Participated in group meetings ➤ Contributed to project plan ➤ Deliberated design decisions ➤ Reviewed Thor arm designs ➤ Began concept drawings of designs 	10.5	22.5
Amos Hunter	<ul style="list-style-type: none"> ➤ Participated in group meetings ➤ Contributed to project plan ➤ Deliberated design decisions 	4	13.5

	<ul style="list-style-type: none"> ➤ Researched robot prototyping techniques ➤ Experimented with pancake recipes ➤ Produced research document for group 		
Brett Altena	<ul style="list-style-type: none"> ➤ Planned and participated in group meetings ➤ Deliberated design decisions ➤ Further researched Camera/tripod options ➤ Further researched griddle options 	5	18
Kristian Wadolowski	<ul style="list-style-type: none"> ➤ Participated in group meetings ➤ Deliberated design decisions ➤ Compiled & edited weekly report 	3	11
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	11

Gitlab Activity Summary

 Action: joined, Tue Sep 04 2018

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