Memo

**To**: Dr. Luis Rodriguez

**From**: A.R.C. - Logan Beaver, Justin Campbell, Tyler Paddock, and Ron Shipman

**Date**: December 19, 2014

**Re**: A.R.C.’s Update for Week 3

**Problem Statement:**

Milwaukee School of Engineering (MSOE) participates in community outreach programs where science, technology, engineering, and mathematics (STEM) topics are demonstrated to encourage younger generations to enter into STEM based degrees and careers. Having an automated control system to demonstrate and interact with would increase the excitement at these outreach programs. Development of a robot with pneumatic locomotion for the Milwaukee School of Engineering’s controls classes would give students a first-hand experience with complex control systems.

**Last Week’s Accomplishments:**

* + Derive initial 27 equations
  + Estimate component masses
  + Stress test microcontroller
  + Finish updating body model
  + Update motherboard/electrical diagram
  + Work on report conclusion
  + Ask JCI about batteries

**Goals for Break:**

* + Finish equation derivation and integrate them with simulation
  + Synthesize shoulder joints
  + Develop robot wireless control mechanism
  + Upload masses and moments for robot components
  + Materials research for chassis/mounting bay
  + Begin work on powerpoint presentation

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| --- | --- | --- | --- | --- |
| **Date** | **Person** | **Task** | **Time [Hours]** | **Total Man-Hours** |
| 12/18/14 | Team | Team Meeting | 1 | 24 |
| 12/19/14 | Team | Team Meeting | 1 |
| Week | Team | Misc Work | 4 |
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