Memo

**To**: Dr. Rodriguez

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

**Date**: September 19, 2014

**Re**: A.R.C.’s Update for the Week #

**Problem Statement:**

Develop a robot with pneumatic locomotion for MSOE’s mechanical engineering controls classes. It should be easy to maintain and easy to iterate on for future projects.

**Last Week’s Goals:**

* Setup SVN server
* Acquire research binder
* Synthesize problem statement and team name
* Do research on leg stability, locomotion, benefits pneumatics, and rough objectives/constraints
* Brainstorm budget opportunities

**Accomplishments:**

* All goals were accomplished

**Goals for this Week:**

* Create this memo
* Synthesize initial constraints
* Review research
* Brainstorm more funding options
* Literature review on iRobot, Google, Rethink Robotics, Boston Dynaics
* Research microcontroller/pneumatic control hardware, xbox/matlab interface, pneumatic circuit research, interface microcontrollers/MATLab

**Project Difficulties:**

* Project budget is currently funded solely by team members

**Activities:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Person** | **Task** | **Time [Hours]** | **Total Man-Hours** |
| 9/11/14 | Team | Team meeting 1 | 1 | 27 |
| 9/12/14 | Team | Team meeting 2 | 1 |
| 9/18/14 | Team | Team Meeting 3 | 1 |
| 9/11/14 – 9/18/14 | Team | Research Tasks | 4 |