Sprint 1 Report
Product Name: EVmicrocontroller on Arduino
Team Name: Dream Team
Date: 10/28/14

Actions to stop doing:

We should stop only meeting for a few minutes for the daily scrum, since it doesn't give us enough time to solve problems. We should minimize straying from the topic at hand, and try to stay focused during our meetings.

Actions to start doing:

We may want to meet more often than just the three weekly scrum meetings if possible, or perhaps just spread them out more evenly throughout the week, so we can avoid long periods without being in contact. An alternative would be Skype or some sort of chat room that we could all use at specified times. In addition to the three weekly scrum meetings, there should be follow-up meetings like the Sprint Retrospective meeting for hashing out an adequate Sprint 1 Report.

Now that we have received the code and have a clear idea as to what we should be working on, it would also be helpful to develop a more clear delegation of tasks in the next sprint.

Actions to keep doing:

We should keep using tools such as Doodle to find times where all of our seven members can meet up, and ensure that as many members attend these meetings as possible. We should also maintain our various channels of communication and keep checking them regularly to stay up to date on the project's progress.

Work completed/not completed:

After receiving the source code and circuit schematic, we developed a new set of user stories based on this new information. These modified user stories are:

(13) As a developer, I want to understand the existing controls and features specified by the existing micro controller so that we can understand the current progress of the project (9 hours)

(3) As a user, I want to simulate output for the joystick using the X axis (5 hours)

(5) As a user, I want the controller to detect the steer/lean angle sensor and use it to control steering output (3 hours)

(13) As a user, I want the controller to calculate the valve command to generate the pulse width modulation output (5 hours)

These stories have all been completed, so we are up to date on this sprint. Some tasks we were not able to complete include handling the input and output of the hydraulic, acceleration, and braking

systems, as we have not yet been able to find or simulate sensors to work with. The main reason we over estimated the ideal work hours during hours previous meetings, was because the Dagne electric car doesn't come to campus until November 7th, and thus some other sensors weren't yet available to us.

Work completion rate:

So far, three stories, semi-complete. We received a schematic for the hydraulics on the steering, which took us a few days to decipher. When we thought we had it down, we implemented it on an Arduino simulation.

Total story points completed = 34. Average story points per day = 34/14 = 2.4

Total ideal hours = 22. Average ideals hours per day = 22/14 = 1.6

Burn Up Chart: