

Report 2 – Juozas Kaziukenas – s0820151

I had a few goals raised for myself to complete before Milestone 2:

1. Refactor Movement code to a clean structure to allow future development
2. Create a GUI to control that system

Refactoring Movement system was an easy task and once it was done I had a code structure (1) which was easy to work with and also allowed me to integrate work other people have done, like Simulator and initial PFS Strategy. To make testing easier, a GUI (2) was created which allows configuring Movement system on-a-fly allowing choosing what type of data processor, strategy and actions executor to use.

Later I started working on an initial code to control robot using a few commands like:

1. Move 123 654 – sets wheels speeds to 123 and 645 and keeps moving until further command
2. Kick – kicks a kicker
3. Exit – stops commands processing

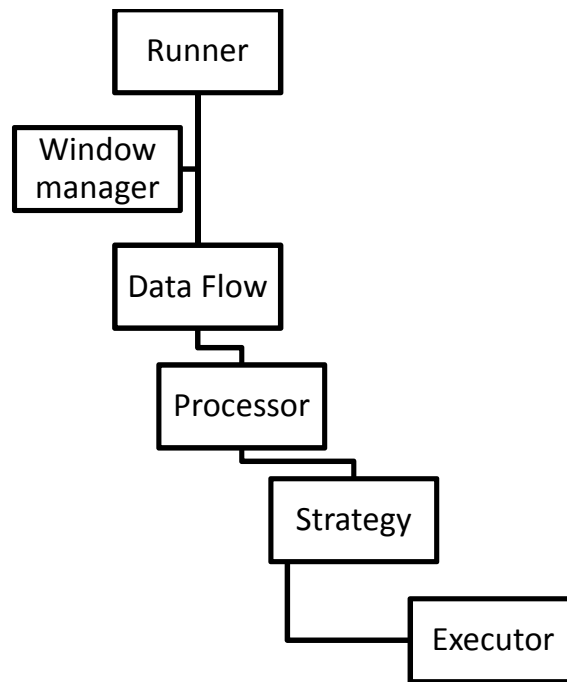
Those commands were enough for the strategy we chose, because it was producing vectors and after translating them to wheels speeds we could start controlling our robot. My idea was to send string commands, but after a few considerations with other team members it was later changed to base controlling robot on a flow of integers.

Crucial point in this milestone was then I decided to step up and become a team manager. I was well aware that not everyone was doing equal portions of work and that progress was too slow and too chaotic. One of the first things I decided to do was to organize a voting for final logo of a team, which was selected from two we had submitted by other members. This happened just a few days before the deadline, hence I couldn't do too much to improve the situation, but I have already started doing tasks like assigning personal to-do's for other members, overseeing progress of whole project, organizing meetings etc.

Just before a deadline we have suffered a major problem with Bluetooth not working on DICE machines and having spent 5 hours trying to make it work, I was forced to make a decision to do it differently. I implemented SSH tunnel from my laptop to a DICE machine running vision system and I was able to make whole our project work again.

My main goal for future weeks is to make sure everyone is doing their jobs and as a team we are moving forward. And in terms of code I will be supervising project architecture and working on improving stability and integration with subparts like vision.

1. Brief class diagram:



2. Movement controlling GUI:

