

SDP Group 8: Milestone 2 Individual Report

Blake Hawkins

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Mentor: Katharina Heil

Members: Blake Hawkins, Lubomir Vikev, Borislav Ikonov, Yordan Stoyanov, James Linehan, Lukas Dirzys, Iain Brown, Emanuel Martinov, Robaidh Mackinnon, Aneesh Ghosh

1 Contribution Summary

I have spent the majority of the last week working on Vision code. My first accomplishment was recognising duplicate/dead code and improving the performance by refactoring or removing it. On Saturday Bobby and I had a long coding session in which I got the system to track all four robot plates simultaneously, along with the backbone for a simple orientation method, and extensive updates to the Vision documentation. Later I improved the orientation code and made it smooth. On Monday I spent a good chunk of time analysing the performance of different subsections, hence finding a bottleneck which I analysed further. I published my results in the documentation and refactored some more.

2 High Points

- Cheap Orientation calculator
- Major Documentation improvements for Vision
- Useful performance analysis of Vision

3 Improvement Points

- None. I felt that I made good progress on my previous week's improvement points.

4 Self Assessment, Exceptional Contributions

I would award myself a 3.5/5, because I spent a large amount of time working in pairs and discussing points of interest with my team, as well as making major useful contributions to the codebase.

I would award a 4/5 to both Lubomir Vikev and James Linehan, due to their implementation as a pair of a pneumatic kicker, which is arguably outstanding and unique work in SDP. Additionally, Lubo has run into major issues with his Trac server, which he fixed by himself in a matter of days.