

# Self-evaluation report

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As with the previous milestone, my contributions have been devoted mainly to administrative and organisational duties, the communications module, and programming the NXT brick. Our team leader was absent due to illness for a significant proportion of this milestone period, and so I ensured the team remained in close contact, and kept the team leader regularly updated with progress.

The 'high-points' of my contribution have been:

- Rewriting the Bluetooth communications class to send packets of data (controlling individual motors as well as action bytes, eg. for kicking), creating a listener thread to collect sensor and tachometer data from the robot, and including support for disconnection-detection and auto-reconnection. With help from Georgi Ivanov, we integrated this with our shared memory.
- Programming the NXT brick (initially for a holonomic-wheeled design, then rewriting this for the tracks-based design). The NXT brick runs a thread which detects changes in sensor states (although no sensors are currently in use on the robot), as well as tachometer counts from the motors. The brick relays these back to the communications module.
- I scheduled and prepared for meetings, continuing to take minutes and writing up action points for each team member. With our team leader's absent, I lead meetings and kept the team in contact via email with progress updates, upcoming deadlines and any action required from team members.

Last milestone, I identified knowledge of system integration as a development opportunity. I believe I have achieved this. I also wished to increase my working knowledge of C++. Whilst I have been reading C++ code, I would like to:

- Continue to develop my ability to comprehend and write C++ code, with the aim of providing support to the AI unit.

Given the above contributions, and also looking at how much other team members have contributed to this milestone, I would award myself a **3**.

I believe that Pavel Abrosimov (s0946889), Georgi Koshov (s1034812), Georgi Ivanov (s1038722) and Stefan Sabev (s1024819) deserve a **4** for their contributions to this milestone. All of these individuals have worked incredibly hard on getting us to a performable stage. They worked well as a team, often staying late into the night, debugging and implementing navigation and vision components.

I would argue that Richard Williams (s0931516) who, due to illness, was unable to be in Edinburgh, is also deserving of a **4**. He worked tirelessly on the AI from home, all the while remaining in close contact with the team. When back in Edinburgh, he then stayed late on several occasions, making sure that his AI unit was integrated successfully with the rest of the system.