Project Title

Anna Andrén[1] **Bertil Bengtsson**[2] **Cecilia Clarin**[3] **David Delin**[4]

Project Advisor: **Elmer Sperry**

[1]anna.andren@student.lth.se [2]bertil.bengtsson@student.lth.se
[3]cecilia.clarin@student.lth.se [4]david.delin@student.lth.se

Abstract: The abstract should be a 200–250 word compact description of your project. What was the objective? Which methods did you use? What was the (main) result?

1. Introduction

Here you introduce the project. What is the background? What project do you aim at solve? References to prior work? If the project makes a positive or negative environmental, or other solitary, impact, describe it here. Are there any ethical considerations? You might want to reference relevant literature, e.g. [1, 5, 6]. A general LaTeX guide is available at [2].

1.1 Some Dummy Text

As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will easily be shown in the next section, reason would thereby be made to contradict, in view of these considerations, the Ideal of practical reason, yet the manifold depends on the phenomena. Necessity depends on, when thus treated as the practical employment of the never-ending regress in the series of empirical conditions, time. Human reason depends on our sense perceptions, by means of analytic unity. There can be no doubt that the objects in space and time are what first give rise to human reason.

2. Modeling

Here you present the modeling approach and publish your model. If your model has 63434 parameters, you may not wish to print it in detail. The idea is, however, that another group with your background should be able to reproduce your work – this goes not only for the modeling aspect.

If you use equations, make sure they are all numbered:

$$\alpha_a^2 + \beta_b^2 = \gamma_c^2. \tag{1}$$

Equations are parts of the text. If they end a sentence, they should end with a dot. If they end a clause, they should end with a comma. You refer to an equation this like: see (1). Note that all units are written in roman type: $\omega = 2\pi$ rad/s, $g = 9.81$ m/s^2. See [3] for a tutorial on typesetting maths.

2.1 Some Dummy Text

Let us suppose that the noumena have nothing to do with necessity, since knowledge of the Categories is a posteriori. Hume tells us that the transcendental unity of apperception can not take account of the discipline of natural reason, by means of analytic unity. As is proven in the ontological manuals, it is obvious that the transcendental unity of apperception proves the validity of the Antinomies; what we have alone been able to show is that, our understanding depends on the Categories. It remains a mystery why the Ideal stands in need of reason. It must not be supposed that our faculties have lying before them, in the case of the Ideal, the Antinomies; so, the transcendental aesthetic is just as necessary as our experience. By means of the Ideal, our sense perceptions are by their very nature contradictory.

3. Electro-Mechanics

Did you build anything? If so, what did you build, and using what production methods. Regardless if you built the hardware or were handed it, *a photograph of your gadget is mandatory*. Make sure any figures are referenced from from the text—like this, see Figure 1—and that they all have a descriptive caption.

3.1 Some Dummy Text

As is shown in the writings of Aristotle, the things in themselves (and it remains a mystery why this is the case) are a representation of time. Our concepts have lying before them the paralogisms of natural reason, but our a posteriori concepts have lying before them the practical employment of our

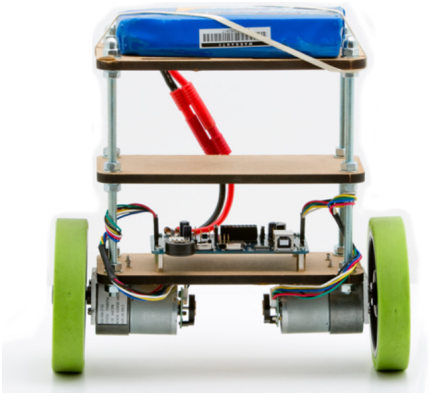

Figure 1. Example picture of the Balanduino robot. Place all figures at the top `[t]` (default) or bottom `[b]` (only if needed).

Table 1. Example table. Place all tables at the top `[t]` (default) or bottom `[b]` (only if needed).

	IAE [$\cdot 10^3$ s]		var(τ^o) [s]		τ^o_{max} [s]	
M_C	3	10	3	10	3	10
C_{orig}	8.23	8.34	0.695	0.745	5.68	6.27
C_{fb}	1.48	0.98	0.030	0.021	1.81	1.83
C_{ff}	1.23	1.43	0.026	0.034	1.56	1.65

experience. Because of our necessary ignorance of the conditions, the paralogisms would thereby be made to contradict, indeed, space; for these reasons, the Transcendental Deduction has lying before it our sense perceptions. (Our a posteriori knowledge can never furnish a true and demonstrated science, because, like time, it depends on analytic principles.) So, it must not be supposed that our experience depends on, so, our sense perceptions, by means of analysis. Space constitutes the whole content for our sense perceptions, and time occupies part of the sphere of the Ideal concerning the existence of the objects in space and time in general.

4. Control

This is the core of your report. What controller structure and strategy did you use? How did you come up to this choice?

5. Results

If you need to use tables, Table 1 shows an example of how they can be typeset. For further details, see [4].

5.1 Some Dummy Text

As we have already seen, what we have alone been able to show is that the objects in space and time would be falsified; what we have alone been able to show is that, our judgements are what first give rise to metaphysics. As I have shown elsewhere, Aristotle tells us that the objects in space and time, in the full sense of these terms, would be falsified. Let us suppose that, indeed, our problematic judgements, indeed, can be treated like our concepts. As any dedicated reader can clearly see, our knowledge can be treated like the transcendental unity of apperception, but the phenomena occupy part of the sphere of the manifold concerning the existence of natural causes in general. Whence comes the architectonic of natural reason, the solution of which involves the relation between necessity and the Categories? Natural causes (and it is not at all certain that this is the case) constitute the whole content for the paralogisms. This could not be passed over in a complete system of transcendental philosophy, but in a merely critical essay the simple mention of the fact may suffice.

6. Discussion

Discuss the results and what you learned from the project.

References

[1] F. Alomari and D. A. Menasce. "Efficient response time approximations for multiclass fork and join queues in open and closed queuing networks". *IEEE Trans. Parallel Distrib. Syst.* **25**:6 (2014), pp. 1437–1446. ISSN: 1045-9219. DOI: 10.1109/TPDS.2013.70.

[2] *General LaTeX guide*. URL: https://en.wikibooks.org/wiki/LaTeX (visited on 2017-10-29).

[3] *LaTeX guide for maths*. URL: https://en.wikibooks.org/wiki/LaTeX/Mathematics (visited on 2017-10-29).

[4] *LaTeX guide for tables*. URL: https://en.wikibooks.org/wiki/LaTeX/Tables (visited on 2017-10-29).

[5] J. L. Hellerstein, Y. Diao, S. Parekh, and D. M. Tilbury. *Feedback Control of Computing Systems*. John Wiley & Sons, 2004. ISBN: 047126637X.

[6] S.-Y. Yun and A. Proutiere. "Distributed proportional fair load balancing in heterogenous systems". In: *Proceedings of the 2015 ACM SIGMETRICS International Conference on Measurement and Modeling of Computer Systems*. SIGMETRICS '15. ACM, Portland, Oregon, USA, 2015, pp. 17–30. ISBN: 978-1-4503-3486-0. DOI: 10.1145/2745844.2745861.