

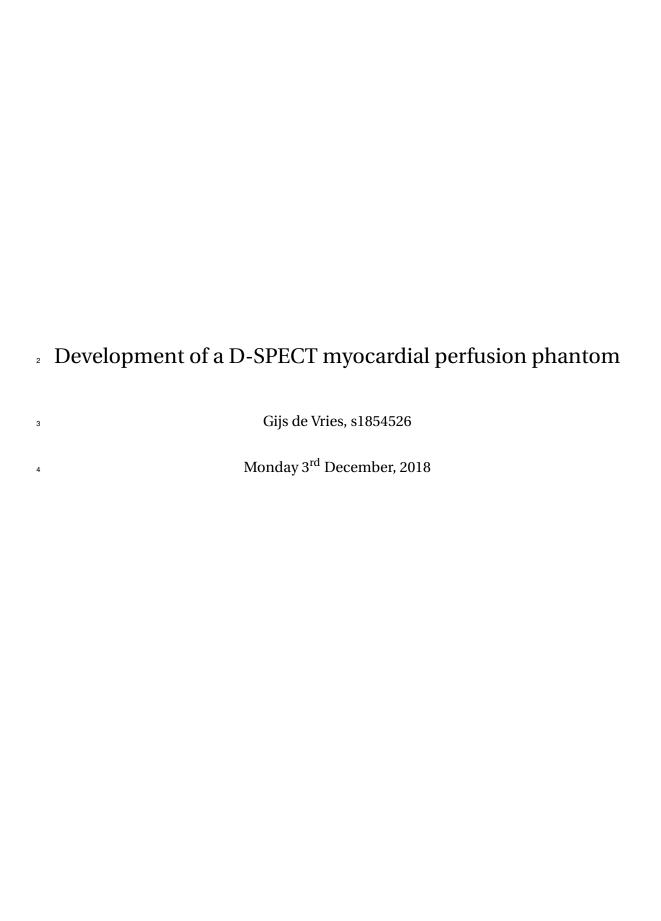
Development of a D-SPECT myocardial perfusion phantom

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Revision 0.1



ii	Development of a D-SPECT myocardial perfusion phantom (Draft)		



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5 Summary

- 6 This is the summary.
- 7 It could describe how convenient it is that the template acts as the documentation as well. This
- 8 unfortunately is not done...

Preface

- This is an optional chapter of your report. Remove it if you do not need it.
- 11 Text
- 12 <name>
- 13 <place, date>

14 Contents

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vi	Development of a D-SPECT myocardial perfusion phantom (Draft)

1 Some LaTeX and RaM Report Template Showcasing

- 27 This is a demo chapter designed to show-case the elements frequently used in reports.
- 28 References to the bibliography:
 - A normal reference: \citep{} results in: (Foobar, 2030)
- A textual reference: \citet{} results in: Foobar (2030)
- Multiple references: \citep{foo,bar} results in: (Foobar, 2030; Barfoo, 1978)
- Remember to run bibtex on the report.tex file in order to generate the actual bibliography.
- References to other parts of the document can be made as well by using \ref{app:one}, which
- 34 resuls in:

29

- 35 A (only the number).
- Because we are using the Latex Hyperref package, you can also use \autoref{app:one}, which
- 37 results in:
- 38 Appendix A (reference name and number).

39 1.1 This is a section

- This is a section in the report Some references to have a couple of bibliography items to check
- the bibtex formatting: 20-sim (Controllab Products, 2008), (Broenink and Hilderink, 2001), (Hil-
- derink et al., 1997), (Jovanović et al., 2004) and (Hoare, 1985)

1.1.1 This is a subsection

- 44 This is an itemize environment.
- cedoctype
- atbeginend
- ⁴⁷ This is an enumerate environment.
- 1. cedoctype
- 49 2. atbeginend
- 50 This is an nested and mixed enumerate/enumerate/itemize environment
- 1. Lorem
 - (a) dolor
 - (b) vel
 - foo
 - bar
- 56 (c) sollicitudin
- 57 2. Ipsum

55

- a (a) egestas
- 9 (b) blandit

- 60 (c) lectus
- 61 These were the most used list environments.

This is a subsubsection

64

When using code use the lstlisting environment

```
65
                  int someFunction( void )
66
67
                            int foo, bar;
68
69
                            foo = 0;
70
                            bar = 10;
71
72
                            foo += bar;
73
74
                            return true;
75
76
77
```

You can also use tables (like Table 1.1):

This	is	the head
This	is	content
and	some	more

Table 1.1: Use caption to elaborate

⁷⁹ Or insert a figure (referenced with 1.1).



Figure 1.1: Figures can have a caption too

1.2 Rich Report Outline

The template offers a set of commands to easily create and maintain a Rich Report Outline (RRO) of a document. The set of commands can be used to insert special RRO items and using a prebuild MEX file, the RRO items can be converted into a RRO document. The commands also could help an author remembering *action points* and his/her supervisor what new action points should be read and which parts did not change since last review. So using the RRO package is a good thing for everyone! More information about RROs can also be found on the CE wiki: http://cewiki.ewi.utwente.nl/wiki/index.php/Report_Writing

88 1.2.1 RRO commands

- First the \rro{rro item} command. It can be used to create some comments about a section (for
- example to describe what should be explained in the different sections). The result is:
- ⁹¹ [rro] This is a default rro item with some text
- 92 Multi line texts, containing all kinds of LaTeX commands are also supported:

[rro]

93

115

116

118

123

124

- A bulleted list is also supported
- (Also with more than one bullet)
- Other special commands are supported as well:
- Citation: (Foobar, 2030), styles: bold / italic
- 94 [rro] And now citation outside an itemize environment: Barfoo (1978)
- 96 for action points. The result is:
- ⁹⁷ [todo] This is a rro item with a todo status
- ⁹⁸ [todo] This is a second rro item with a todo status
- We have also the \rrowip{rro item} command (or abbreviated: \rrow{rro item}), it can be used for work in progress. The result is:
- ¹⁰¹ [inpr] This is a rro item with a work in progress status
- 102 [inpr] This is a second rro item with a work in progress status
- We have also the \rrodone{rro item} command (or abbreviated: \rrod{rro item}). After you have finished an action point, you could use this command to indicate it is done and needs
- reviewing by your supervisor. The result is:
- 106 [done] This is rro item with a done status
- ¹⁰⁷ [done] This is a second rro item with a done status
- 108 We have also the \rrogone{rro item} command (or abbreviated: \rrog{rro item}). The result is
- still visible in the DVI output, but gone in the PDF version. It also is visible in the RRO document
- itself, so a complete RRO always is available. It can be used after your supervisor has read the
- done action point and not further actions are required. (Otherwise, if new actions are required
- you could set it to todo again) The result is... Empty since this is a PDF!
- RRO items also can used as bulleted lists, eg for sub RRO items. \rroi, \rroit, \rrod and \rrow \rrog can be used for these sub rro items. It results in:
 - A bulleted rro item is also supported
 - (which can contain the different RRO item types)
 - (of which some are done)
 - (and these ones are work in progress)

119 1.2.2 The resulting RRO document

- In order to build a Rich Report Outline document run the BuildRRO.bat file or use *make rro* on non-Windows systems.
- After building the document, this section would result in:
 - 1.2 Rich Report Outline
 - RRO commands

125 This is a default rro item with some text A bulleted list is also supported • (Also with more than one bullet) 126 Other special commands are supported as well: • Citation: (Foobar, 2030), styles: **bold** / *italic* 127 • And now citation outside an itemize environment: Barfoo (1978) 128 · This is a rro item with a todo status 129 This is a second rro item with a todo status • This is a rro item with a work in progress status 130 • This is a second rro item with a work in progress status 131 • This is rro item with a done status 132 133 This is a second rro item with a done status 134 • This item is not visible in the pdf version • This is a second item that is not visible in the pdf version 135 o A bulleted rro item is also supported 136 o (which can contain the different RRO item types) 137 138 o (of which some are done) o (and others are gone) 139 In order to remove all output from the RRO commands in a document, use \usepackage[final]{rro} (the line to modify can be found in include\preamble.tex of this template.) 142 Note: The information to build the RRO document itself is still being collected, so this func-143 tionality is not broken when using the *final* parameter. 144 1.3 Notes commands 145 This template has the \note{Some comments} command. The result is: 146 ** Some comments ** 147 This template has the \notedone{Some comments} command. The result is: 148 ** Some comments ** 149 This template has the \notegone{Some comments} command. The result is: This template has the \sidenote{The comment goes here} command. The result is written in 151 the outer page margin. 152 The comment In order to remove all output from the Notes commands in a document, use goes here 153 \usepackage[final]{notes} 154 (the line to modify can be found in include\preamble.tex of this template.) 155 1.4 Requirement commands 156 The template contains a requirements package (very new, so it might/still need to polishing), 157 with it you can easily state some requirements: 158 **Requirement 1:** The \requirement command must define the requirement.

- The requirement description/explanation can follow each requirement.
- 161 **Requirement 2:** The requirements must have labels
- So it is possible to refer back to the requirement. For example by using the \autoref command,
- like this: This shows that Requirement 2 is implemented!
- Requirement 2.1: Sub requirements should also be available
- So it is possible to further specify the requirements.
- Requirement 2.2: users of this package should provide bug reports
- Otherwise the package stays 'very new' and never matures...

168 1.4.1 Known issues

- Thiis are the known issues (make sure to circumvent them!):
- When a requirement is at the bottom of the page, its description might start on the next page. Both the requirements and 9at least) the first line of the description should be on the same page (see Requirement 1 in the current example document)

1.5 Draft and Final versions

- The template supports draft and final versions. The first two lines in document.tex can be used to switch between the draft and final versions. The draft version adds
- line numbers to easy discussions with supervisors/reviewers
- support for RRO and notes package
 - the text (Draft) and dates in the headers/footers

179 1.6 Symbols

180 1.6.1 Accent symbols

- 181 áàäâãçāøÀ
- The command for the circular degree symbol is ${\tilde \gamma}\simeq {\tilde \gamma}$ which results in °.
- 183 The command for the euro symbol (€) is \euro. To get a correct unbreakable spacing between
- the symbol and the value use \euro{value}, which results in €10.

185 1.7 Super and subscript

- The superscript command is ^{characterstobesuperscripted}
- 187 Subscripts
- The subscript command is characterstobesubscripted.

A Appendix 1

Tip: Make a copy of this document, since this is a manual of the template. This will prevent losing the document while modifying it. (And probably breaking it.)

92 A.1 Required TexLive packages

The following packages are required for TeX Live 2012 and 2013 (tested under Ubuntu)

```
texlive
194
  texlive-lang-dutch
                           -> Dutch hypenation
195
                              (old TeX Live distributions, 2013-)
  texlive-lang-europeans -> Dutch hypenation (amongst others)
197
                              (new Tex Live distributions 2013+)
198
  texlive-latex-extra
199
                           -> fourier
   texlive-fonts-extra
200
  texlive-humanities
                           -> lineno
  texlive-pstricks
                           -> pstricks (2013+?)
                              (not really used in the template??)
203
```

Bibliography

```
Barfoo (1978), Lorem Ipsum Lorei, CE, Utwente, ISBN 0134456789.
205
    Broenink, J. F. and G. H. Hilderink (2001), A structured approach to embedded control systems
206
      implementation, in Proceedings of the 2001 IEEE International Conference on Control
207
      Applications, Eds. M. W. Spong, D. W. Repperger and J. M. I. Zannatha, IEEE, pp. 761-766,
      ISBN 0-7803-6733-2, doi:10.1109/CCA.2001.973960.
209
      http://www.ce.utwente.nl/rtweb/publications/2001/pdf-files/
210
      042R2001.pdf
211
    Controllab Products (2008), 20-sim.
212
      http://www.20-sim.com/
    Foobar (2030), Foobar Lorem Ipsum, CE, Utwente, hundredth edition, ISBN 0123456789.
    Hilderink, G., J. Broenink and A. Bakkers (1997), Communicating Java Threads, in Parallel
      Programming and Java, Proceedings of WoTUG 20, volume 50, IOS Press, Netherlands,
216
      University of Twente, Netherlands, pp. 48-76.
217
      http://www.ce.utwente.nl/rtweb/publications/1999/pdf-files/014_
218
      R99.pdf
219
    Hoare, C. A. R. (1985), Communicating Sequential Processes, Prentice Hall International.
220
      http://www.usingcsp.com/cspbook.pdf
    Jovanović, D. S., B. Orlic, G. Liet and J. F. Broenink (2004), gCSP: A Graphical Tool for Designing
222
      CSP Systems, in Communicating Process Architectures 2004, volume 62 of Concurrent
223
      Systems Engineering Series, Eds. I. East, J. Martin, P. H. Welch, D. Duce and M. Green, IOS
224
      press, Amsterdam, pp. 233–252, ISBN 1-58603-458-8, ISSN 1383-7575.
      http://doc.utwente.nl/49238/1/jovanovic04gcsp.pdf
```