

ECE803 Tutorial Sheet 2

Friday, 6 November

The purpose of this tutorial is to get a better understanding of ladder logic.

Please review the Wikipedia page on ladder logic and any related material.

Consider the S7 example of the conveyor belt from the notes. Re-write this symbolic “program” using the diagrammatic notation.

The statement list document is at

[https://cache.industry.siemens.com/dl/files/814/109751814/att_933093/v1/STEP_7 -
_Statement List for S7-300 and S7-400.pdf](https://cache.industry.siemens.com/dl/files/814/109751814/att_933093/v1/STEP_7_-_Statement_List_for_S7-300_and_S7-400.pdf)

Look at the other programming examples at the end of the document and try to understand them – can you see how to represent them in ladder logic?

You might find it interesting to visit <https://www.openplcproject.com> (and possibly install the runtime system and editor) which will give you the opportunity to test out your own PLC programs.