

I. IDENTIFICATION DATA

Thesis name:	Open Rapid Control Prototyping, Education and Design Tools
Author's name:	Dion Bequiri
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Control Engineering
Thesis reviewer:	Prof. Roberto Bucher
Reviewer's department:	University of Applied Sciences and Arts of Southern Switzerland-DTI

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
Dion started from an already existing software and it has to understand what wa already implemented. He had to good understand the previous software and this is not a simple task.	

Satisfaction of assignment	fulfilled
<i>Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.</i>	
All initial required tasks have been implemented and tested .The demonstration with vectors was promising. The support of the ESP32-C3 and Xilinx Zinq based MZ_APO are complete.	

Method of conception	outstanding
<i>Assess that student has chosen correct approach or solution methods.</i>	
The approach and the solution are original and justified.	

Technical level	A - excellent.
<i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i>	
The student profited very well from the provided software and the result are very good. In any case, he had to acquire pysimCOder and NuttX in order to be able to take full advantage of their features and what was already available. The final integration consequently works very well.	

Formal and language level, scope of thesis	A - excellent.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
Dion has a good command of the English language, and the text is well written and readable	

Selection of sources, citation correctness	A - excellent.
<i>Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.</i>	
Complete and exhaustive	

Additional commentary and evaluation

Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.

The result of the project is very promising for the future of the pysimCoder tool.

The implementation on ESP32-C3 and Xilinx Zynq based MZ_APO, can definitely make a very good contribution to a control teaching lab.

All requirements have been met, the SW source files are well written, clean, well commented, very readable and understandable.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation. Please present apt questions which student should answer during defense.

I evaluate handed thesis with classification grade A - excellent.

Date: 27.5.2022

Signature: