SCANIA

HANDLEDARENS BEDÖMNING AV EXAMENSARBETE

Skickas undertecknad till respektive Personaladministratör

Master thesis Student's name	Period of thesis	Department
Atul Singh	**2018-10 to 2019-02**	**NX Exhaust After-Treatment**
Supervisor's name	Thesis name	
Louis Carbonne	**CFD optimization of EAS using HEEDS**	

EVALUATION

Factors	Very good	Good	Average	Bad
Quality of the work	X			
Capacity to take initiatives		X		
Capacity to work with others	X			
Development during the thesis	X			
Presentation performance		X		

General grade	X			

SHORT DESCRIPTION of the master thesis

Within the CFD calculation team for internal flows at Scania, there is a need to develop new ways of optimising the different components. Delivery of parametrized CAD models is now very common in projects and the question is how to get the maximum value out of those models. The thesis focused on implementing a workflow for optimization using advanced optimisation tools for parametrical optimisation HEEDS.

COMMENTS from the supervisor

Mr. Singh has shown himself to be a very hard working person and has delivered a workflow for optimization using HEEDS that includes many different softwares (CATIA, ANSA, STAR-ccm+, AVL Fire M and Fire C, Matlab). Although very independent in the way he looks for solutions, he reaches out easily to relevant part of the organization in order to get help if needed. A good example is his close cooperation with Scania IT to solve technical issues, which was not explicitly demanded as a part of the master thesis work. The result is a better workflow that can be used in the future by our group. The structure in Mr. Singh's work and his awareness of the time schedule made it possible to integrate many software in the loop in spite of the technical complexity and the time constraint. It was nice working with as he is always well prepared.

Signature

Date	Supervisor
2019-15-03	Louis Carbonne