

EEE4022S/F Final Year Project
Supervision ELO Tracking Form 2018

Student Name: Keegan Crankshaw

Student Number: CRNKEE002

State whether a DP / DPR is awarded: **DP**

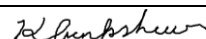
	Supervisor Comment	Supervisor Comment	Supervisor Comment
<p>ELO 4: Investigations, experiments and data analysis Demonstrate competence to plan and conduct investigations and experiments.</p> <p>The balance of investigation and experiment should be appropriate to the discipline. Research methodology to be applied in research or investigation where the student engages with selected knowledge in the research literature of the discipline.</p> <p>Note: An investigation differs from a design in that the objective is to produce knowledge and understanding of a phenomenon and a recommended course of action rather than specifying how an artifact could be produced.</p>	<p>The student did good planning of the methodology for this project, at a suitably early stage so as to direct the design and tests to be done. He has followed an effective approach. Thorough planning was done early on and the objectives and various processing operations and testing approaches were discussed in detailed and effectively planned, culminating in a good sequence of test experiments to do with a variety of calculations for testing the efficiency and resource utilization of the designs posed.</p>		
<p>ACTION REQUIRED FROM THE STUDENT: The Student must engage in structured research relating to the topic at hand in order to gain insight into the chosen field. Such research includes information on word sizes, the relation between word size, accuracy and speed of execution, HDL and comparison of hardware and software in terms of execution speed. This knowledge must be combined to form a literature review. Using knowledge obtained from the research aspect of the project, as well as knowledge and experience gained through the course of the undergraduate degree, the student must design and implement experiments to investigate the hypothesis.</p>			
<p>ELO 6: Professional and technical communication Demonstrate competence to communicate effectively, both orally and in writing, with engineering audiences and the community at large. This course evaluates the long report component of this outcome at exit level.</p> <p>Material to be communicated is in an academic or simulated professional context. Audiences range from engineering peers, management and lay persons, using appropriate academic or professional discourse. Written reports range from short (300-1000 word plus tables diagrams) to long (10 000 to 15 000 words plus tables, diagrams and appendices), covering material at exit-level. Methods of providing information include the conventional methods of the discipline, for example engineering drawings, as well as subject-specific methods.</p>	<p>The student has shown good professionalism, both in his written and oral communication. In terms of draft report chapters, he has a good understanding of what is expected and has made good progress thus far. The student has used a good choice of terms, wording and writing style for the draft documentation shown for inclusion into the report. Good understanding of use of visualization methods. Based on the progress so far, it looks like the student will finish the report on time.</p>		
<p>ACTION REQUIRED FROM THE STUDENT: The Student must produce a project report (or thesis) of high standard. Each aspect of the project must be well documented. The required diagrams, charts, etc must be included to support the body of text in the report. Professional language and correct tone must be used to convey all aspects of the project, in a manner that is not exclusive to audiences. The report should be correctly referenced using the IEEE referencing method. The primary aspects of the project must also be collated into a PowerPoint presentation as well as a poster as a means of presentation both to peers and wider communities at the department's Open Day</p>			
<p>ELO 8: Individual, team and multidisciplinary working Demonstrate competence to work effectively as an individual, in teams and in multidisciplinary environments. This course evaluates the individual working component of this learning outcome at exit level.</p>	<p>The project incorporates aspects of multidisciplinary in terms of drawing of the range of expertise in maths, standards and FPGA/HDL design skills which are key to this project. The student has refined the project objectives and methodology, and is maintaining a good focus on these. The student has participated adequately in works involving others.</p>		
<p>ACTION REQUIRED FROM THE STUDENT: The Student must be able to work individually on the project, reaching out to peers and supervisors if assistance is required. However, assistance given must not hinder the student's ability to complete the project individually, that is to say assistance given should not seek to complete aspects of the project, rather guide the student in the correct direction.</p>			
<p>ELO 9: Independent learning ability Demonstrate competence to engage in independent learning through well developed learning skills.</p> <p>Operate independently in complex, ill-defined contexts requiring personal responsibility and initiative, accurately self-evaluate and take responsibility for learning requirements; be aware of social and ethical implications of applying knowledge in particular contexts.</p>	<p>The student shows good competence in working independently on complex tasks. The student has demonstrated ability to take responsibility for learning what is needed and to use the tools to develop the required system.</p>		
<p>ACTION REQUIRED FROM THE STUDENT: The Student will execute the project in an ethically sound manner. The Student will spend the time required independently researching information as well as developing the skills required to implement the given aspects of the project.</p>			

Student Name Keegan Crankshaw

Internal Examiner Name Simon Winberg

Student Signatures

Internal Examiner Signatures




Designation Final Year Student of Engineering
Dates 28-Aug-18

Designation Internal Examiner
Dates 28-Aug-18