EEE4022F/S Final Year Project	Student Name: Justin Wylie	Student Number: WYLJUS002	DP awarded
Supervision GA Tracking Form 2020	**Supervisor Comment**	**Supervisor Comment**	**Supervisor Comment**
GA 1: Problemsolving Identify, formulate, analyse and solve complex engineering problems creatively and innovatively **ACTION REQUIRED FROM THE STUDENT:** The problem being investigated requires the student to break down the investigation into various sub-problems and then design and evaluate solutions to them. This requires the strategic development of modules and the formulation of appropriate experiments to analyze their performance. The student is also required to cover the relevant literature in order to guide the problems solving process toward the appropriate solution.	The initial project requirements expolred and the student prepared an effective high level design for the proposed system. The student is following an effective approach to refine the design and produce a functional prototype to evaluate the communications and related processing methods. The student has a good understanding of the design process, has shown competence in creative problem solving and has handled the procedural and non-procedural design aspects of the system effectively. The student is making good progress on the project, and is anticipated to submit by the due date.		
GA 4:Investigations, experiments and data analysis Demonstrate competence to plan and conduct investigations and experiments. 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. 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. **ACTION REQUIRED FROM THE STUDENT:** Thorough investigation into the topics at hand are necessary to enable the student to develop appropriate modules for the investigation. After a review of the appropriate literature, this investigation calls upon the student to use their engineering knowledge to formulate experiments to highlight the performance and limitations of the modules designed. The designed modules will be empirically tested to evaluate the effectiveness of the solutions and appropriate analysis of the experiment data will be performed.	The student has done good planning for this project. He deciding on effective ways to do the design and pursue experiments to test the system. Throughout the project he has followed an effective approach.		
GA 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. 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 (10 000 to 15 000 words plus tables, diagrams and appendices) should cover 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. **ACTION REQUIRED FROM THE STUDENT:** The report clearly communicates the investigation and concepts. The work of the student will be of a professional standard. The report will present the investigation in a manner accessible to laypersons while retaining an appropriate level of depth and detail to ensure engineering peers and academics are able to clearly follow the investigation process.	The student has shown good professionality, for both written and oral communication. In terms of the report he has a good understanding of what is expected and has made good progress. The student has applied good wording to explanations and is following an effective writing style for the report. He has shown a good understanding of use of visualization methods. Based on the progress so far, it is anticipated that the student will complete on time.		
GA 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. **ACTION REQUIRED FROM THE STUDENT:** The student will demonstrate their ability to apply their engineering knowledge in an individual capacity. This will require the student to demonstrate self-time management and their ability to identify and solve problems on their own. The student will work with their supervisor to receive and implement feedback throughout their investigation.	The project incorporates some multidisciplinary aspects, e.g. in terms of user interaction with the system. This is predominantly a scientific computing project. . The student has refined the project objectives and methodology, and is maintaining a good focus on these. The student has participated adequately in interacting with others, there has been some scope for him to interact with people where the system will be installed to gain insight into desirable operation and use scenarios of the system..		
GA 9: **Independent learning ability** Demonstrate competence to engage in independent learning through well developed learning skills. 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. **ACTION REQUIRED FROM THE STUDENT:** The student will encounter various complex problems during the investigation that will require them to engage in independent learning activities and apply their foundational engineering knowledge gained throughout their degree to develop non-obvious solutions. The student will engage in their study ethically and not violate the rights of others.	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.		

Student Name	Justin Michael Wylie	Internal Examiner Name	Dr Simon Winberg
Student Signatures		Internal Examiner Signatures	
Designation	Final Year Student of Engineering	Designation	Internal Examiner
Dates	19-10-2020	Dates	18-10-2020