BEng Rubric – Project Planning Report

Project Overview – 10%

Level	Criteria
0	Section missing, or unable to meet the next rubric level.
Unsatisfactory	Overview provides a very limited understanding of the project with little to no added value from the supervisor provided project description. Project diagram may be very high-level, unclear, or missing entirely.
Pass	Student provides an overview of the main project aim along with a diagram that shows consideration of the main system components (hardware and/or software) or processes and how these are interconnected.

	6	and how these are inter	connected.		
ass requ	irement mu	st be met before any el	ements below can be	included.	
++		erview makes use of sui g. use of academic pape			g context of the
	present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)
++	-	erview makes use of sui g. using market data to			context of the
	present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)
++	The aim cl work.	early and concisely sets	out what the project	must achieve and the	importance of the
	present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)
++		t diagram makes good u uitively separate sub-sys tent.	-		
	present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)
++	requireme	gram demonstrates com nts (for example a MCU ay include API, algorithn	block might include p	eripheral/memory/clo	ck needs, software
	present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)

++	The project	The project diagram clearly shows, and where necessary explains, dependency between parts.			
	oresent	Some	Most	Fully met	Exceeded
	0%)	(40%)	(60%)	(80%)	(100%)

Specification – 10%

Level	Criteria
0	Section missing, or unable to meet the next rubric level.
Unsatisfactory	Provided specification is very limited and shows little to no expansion on the original project description. Specification points given may be poorly defined or unclear.
Pass	Student provides a list of relevant requirements for the final project deliverable that can be used to measure the success of the project.

_	•	specification points into equirements over the m			
	present	Some	Most	Fully met	Exceeded
	(0%)	(40%)	(60%)	(80%)	(100%)
_	Specification pand software re	oints are grouped in a s equirements).	uitable way for the	project (for example s	plitting hardware
	present	Some	Most	Fully met	Exceeded
	(0%)	(40%)	(60%)	(80%)	(100%)
++		n points are all quantita e.g. H&S, legal requirem r eferences .			• •
	present	Some	Most	Fully met	Exceeded
	(0%)	(40%)	(60%)	(80%)	(100%)
++	There is clea	ar assessment of the ex	pected challenge po	osed by each specificat	tion point.
	present	Some	Most	Fully met	Exceeded
	(0%)	(40%)	(60%)	(80%)	(100%)
++	Each require	ement includes a succin	ctly clear explanatio	on of how it will be tes	sted including the
	present	Some	Most	Fully met	Exceeded
	(0%)	(40%)	(60%)	(80%)	(100%)
++		ns are shown to be both terms of the time frame		e facilities available to	the student) and
	present	Some	Most	Fully met	Exceeded
	(0%)	(40%)	(60%)	(80%)	(100%)
++		ion to achieve specificat ade system. There is evi	-		tate-of-the-art
	present	Some	Most	Fully met	Exceeded
	(0%)	(40%)	(60%)	(80%)	(100%)

Methodology – 10%

Level	Criteria
0	Section missing, or unable to meet the next rubric level.
Unsatisfactory	Student attempts to provide a development process for the project, with a limited inclusion of key tools and components, without consideration of the limitations related to these.
Pass	Student provides a suitable development process for the project, highlighting some key tools and components that will be used within each step, and outlining the obvious limitations related to these.

++	1	Development process details all relevant tools that will be used with suitable justification for their choice.			
	present	Some	Most	Fully met	Exceeded
	(0%)	(40%)	(60%)	(80%)	(100%)

++	Discussion	Discussion of the implications of inter-dependencies between different steps.			
1	oresent	Some	Most	Fully met	Exceeded
	0%)	(40%)	(60%)	(80%)	(100%)

+++	their indivi	Each step of the methodology is assessed in terms of the challenge posed to the student based on their individual experience and skill set. Additional tasks related to these are explained (e.g. use of a piece of software may require additional tasks to become familiar).			
Not present		Some	Most	Fully met	Exceeded
(0%)		(40%)	(60%)	(80%)	(100%)

+++	+++ Limitations are explained and assessed with relation to the project development (e.g. using a licenced software may incur cost but be beneficial if the student already has experience).				, ,
	present	Some	Most	Fully met	Exceeded
	(0%)	(40%)	(60%)	(80%)	(100%)

++	Student effectively combines/synthesizes/translates existing methodologies leading to a bespoke solution which meets the specifications and accounts for all limitations.				eading to a bespoke
Not present (0%)		Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)

Risk Management and Mitigation – 20%

(0%)

(40%)

Level	Criteria
0	Section missing, or unable to meet the next rubric level.
U	Risks presented are not related to project management.
	Risks presented may be missing mitigation actions.
Unsatisfactory	Risks presented may not be relevant to the project or very generic with little
	explanation.
Docs	Student provides a list of some obvious expected risks that could impact completion of
Pass	the project and includes possible mitigation actions, although superficially considered.

Pass requirement must be met before any elements below can be included.

++ Include	es risks specific to the proje	ect methodology acco	mpanied by suitable m	itigation actions.		
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)		
++ I .	The potential impact of risks on the project are realistically quantified in terms of time/cost/change in spec. Risks are sorted by impact.					
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)		
++ Mitigat	ion actions are realistic gi	ven the resources avai	lable to the project.			
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)		
++ The lik	elihood of risks occurring a	are quantified with a n	nethod applied to sort	the importance o		
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)		
++	s clear indication of when the mitigation actions.	each risk is likely to oc	cur in the project and	this is considered		
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)		
++ All criti	cal risks to the project are	fully mitigated and au	uantified (rated) pre a	nd post mitigatior		

(60%)

(80%)

(100%)

Time Plan – 20%

Level	Criteria			
0	Section missing, or unable to meet the next rubric level.			
Unsatisfactory	Time plan is very basic, may be missing Gantt chart and just given as a list of tasks. Tasks show little thought and either reproduce information from the supervisor project handout or are a repeat of the specification points.			
Pass	Student provides a Gantt chart that outlines the expected progress of the project, broken down into major tasks. Gantt chart includes stages at which progress reviews will be carried out.			

	st be met before any ele						
+ Completion	Completion points of deliverables and milestones indicated on chart.						
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)			
+ Dependence	y between tasks is clea	rly indicated and expl	ained.				
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)			
+ Clear link o	f Gantt chart tasks to pr	roject specification ar	nd methodology .				
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)			
	align with project revien be at each review .	ew points and explana	ition is given for where	e the project is			
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)			
++ Gantt char	t and explanation demo	onstrates consideratic	on of risks and mitigati	ons with use of			
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)			
++ Gantt char	t has a visible cycle of d	levelop, test, docume	nt.				
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)			
++ Realistic ti	me planning and work I	oading (based on # h	rs per week).				
Not present Some (40%)		Most (60%)	Fully met (80%)	Exceeded (100%)			
++ Gantt chart tasks is exp	t demonstrates points o	of uncertainty (e.g. vi	a error bars) and the i	mpact on followinք			
Not present (0%)	Some (40%)	Most (60%)	Fully met (80%)	Exceeded (100%)			
	l l			L			

Interview – 30%

Level	Criteria			
0	Student did not attend interview. (Defence)			
Unsatisfactory Explanation of project is limited and confused. No coherent plan and/or risks presented.				
Pass	Student is able to explain their project aim and expected outcome. The time plan for the project and potential risks are explained to the moderator. Questions may be unanswered or unsatisfactorily answered.			

++	-	Project aim is clearly explained, and when questioned student shows a good understanding of how the aim will be met .					
No	t present	Some	Most	Fully met	Exceeded		
	(0%)	(40%)	(60%)	(80%)	(100%)		

++	Student convincingly shows that the project can be completed with the resources available to them .					
	present	Some	Most	Fully met	Exceeded	
	0%)	(40%)	(60%)	(80%)	(100%)	

++	When questioned about risks to the project, student is able to demonstrate/discuss beginning steps that have been taken to mitigate these.					
Not	present	Some	Most	Fully met	Exceeded	
	(0%)	(40%)	(60%)	(80%)	(100%)	

++	Student reflects on the personal limitations of their planning process and their ability to complete the project. Questioning shows that limitations are convincingly managed .						
Not present		Some	Most	Fully met	Exceeded		
(0%)		(40%)	(60%)	(80%)	(100%)		

++	Through questioning and presentation, the student can convincingly justify the project undertaking .					
	Not present (0%) Some (40%) Most (60%) Fully met (80%) Exceeded (100%)					

++	Given presentation (both provided materials and students delivery) is effective in its explanation of the project and plan.						
Not present (0%)		Some	Most	Fully met	Exceeded		
		(40%)	(60%)	(80%)	(100%)		