

Engineering Journal 2024

- Additions compared to the 2023 version are highlighted in red
- Crossed out red key elements are removed and will not be graded

Overall Document						
Key Elements	0	1-2	3-4	5-6		
Organized information		Dated logs, but lack of attempt to allow	Dated logs, and somewhat informative	Excellent table of contents, dated logs,		
allowing easy lookup		easy lookup.	for allowing easy lookup. Table of	informative and resourceful appendix		
o , 1			contents may be there, but not very	allowing quick lookup and extended		
			useful. Figures and tables labeled and	learning. Figures and tables labeled,		
			captioned	captioned and well referenced		
Informative – allow		Shows basic attempt to present and	Show good attempt to provide clear	Show clear, well-organized, and		
others to learn from		illustrate progress, but sloppy and hard	illustration of progress: issues \rightarrow	supportive information, good flow of		
		to follow.	possible solutions, etc.	illustration of progress: issues →		
				solutions.		

Log specific						
Key Elements	0	1-2	3-4	5-6		
Problems & potential		Relevance, context, and some	Problems/issues are specifically defined,	Problem/issues are specifically defined		
solutions		problems/issues are mentioned, but	but solutions are not well-defined.	in clear context, and criteria for possible		
		confusing. Lack of illustration on	Missing or very little indication of	solutions are also well-defined. External		
		possible solutions.	in-depth investigation/research.	investigation/research included.		
Short term planning and		Little sign of upfront planning. Do the	Shows good attempt to have a plan	Sound project planning. Tasks are clearly		
task overview		work as it comes.	upfront, but unfortunately, not followed	designated with dates, goals, decisions,		
			through.	and accomplishments.		



Test data acquisition	Shows initial tests on sensors, actuators,	Documentation includes varied sensor	In-depth documentation of extensive
and documentation	and software tasks. Descriptions of basic		hardware tests, including innovative
	testing procedures and observed	software algorithms tested for specific	approaches. Detailed records of
	results. Initial observations on design	challenges. Somewhat detailed accounts	advanced software testing, exploring
	issues and performance.	of testing procedures and findings, with	various algorithms. Documentation of
		emphasis on design revisions.	iterative testing and design refinement.
Illustration with	Only simple diagrams and tables.	Use of varied illustrations, including	Comprehensive use of detailed
diagrams - tables,	Limited, straightforward flowcharts and	more detailed diagrams and tables.	illustrations, including e.g. CAD designs.
flowcharts, UMLs,	schematics. Basic concepts or designs	Integration of flowcharts, UML	Well-structured flowcharts, UML
schematics, CADs, etc.	presented with minimal detail and	diagrams, and schematics supporting	diagrams, and schematics illustrating
	clarity.	the process of integration.	the engineering process.
Research	Limited research into issues or new	Moderate research into issues and	Detailed research on issues with
	ideas with few references. Basic,	inspiration sources. Links provided with	multiple solution approaches. Shows
	unsorted links provided.	some organization.	inspiration sources; a comprehensive
			listing and organization of relevant links.
Provide data from tests			
on sensors, actuators,			
and different situation			
tasks to support			
hardware design			
Provide data from tests			
on different situation			
tasks to support			
software design *			
Show tests for issues &			
performance			