16-450

Robotics Systems Engineering

	Missing	Poor	Fair	Good	Excellent
Cuatam	No overall	Description	Description is	Description is is	The overall system is
System	system	present but doesn't	missing a significant	missing some small	described clearly and
Description	description	really say anything	area	aspect or is too long	succinctly.
	Use cases are	Use cases do not	Use cases cover the	Use cases are well	Use cases provide clear
	missing	provide any insight	basic cases only	done, but some	insight into the system
Use Cases		into the system	,	obvious and important	and cover a wide range
		design		cases are missing	of possible interactions.
	No ConOps	ConOps does not	ConOps is	ConOps well specified,	Concept of operation
Concept of	specified	specify how the	confusing and/or	but some aspect is	clearly and succinctly
Operation		system is expected	underspecified	weak.	specifies how the
орогии.		to function			exhibit will work.
	Subsystems	Subsystems	Subsystem	Subsystems are well	All subsystem
	are not	descriptions	descriptions have	specified, but there are	descriptions provide a
Subsystem	described	provide hardly any	significant omissions	some minor issues,	clear idea of each
Descriptions		information about	eigriniouni orinious	like a critical	subsystem and any
Boodinptiono		how the system is		component not	critical component is
		designed		specified.	identified.
	No physical	Sketch is a jumble	Basic sketch is	Sketch is well done,	Sketch is very clear,
/	sketch of the	and very hard to	presented but some	but some areas are	providing significant
Physical	system is	use to understand	significant areas are	confusing or do not	insight about the
Sketch	present	the design.	underspecified or	have enough detail.	design.
			unclear	J	
	No architecture	Diagram exists,	A basic diagram is	Diagram is well	Architecture diagram
/	diagram	but is virtually	present, but there	presented, but some	clearly specifies how
Architecture	present	useless	are some significant	aspect is missing or	the system is
Diagram			omissions	unclear	configured with
					relationships identified.
	No trace	Trade studies are	Trade studies are	One important trade	Trade studies present
	studies /	minimal and do not	basic and provide	study is missing, or the	for all major design
	performed /	help the design	some insight to the	trade studies are light	decisions and clearly
Trade Studies	·	process	design, but there are	on detail	identify reasons for
			some significant		choices. If no choice is
			holes		made, a prototyping
					plan is identified.
	No deployment		Plan has some	Plan is well specified,	Plan clearly specifies
Deployment	plan specified	minimal and not	significant holes, but	but some aspect was	how the exhibit will be
Plan		very useful	the overall idea is	overlooked	integrated and installed
			there	D	and the museum.
	Document	Document does a	Document is mostly	Document could use	Document reaches an
	does not	very poor job of	complete, but is	some more	appropriate level of
Level of Detail	describe a	specifying anything	missing some major	information in one	detail where system is
	design	\setminus	ideas.	section or goes into	well described but there
				too much detail in	is not too much
	Thomasic	The in anti-	Cignificant	parts.	component level detail.
Deales	There is no	The is only	Significant hand	Most of the design is	All design desisions are
Design	referenced	minimal connection to the	justification based	traceable to the	traceable to appropriate requirements and
Relative to	relationship to		on requirements is	requirements, but	
Requirements	requirements	requirements	missing	some areas are missing.	priorities are clearly defined
	Document	Document is either	Document contains	Document contains a	Document contains a
	does not	missing a revision	a revision history	revision history but	revision history, and
Engineering	contain a	history or nothing	and some	references are a little	proper references to
Practices	revision history	is referenced.	references, but they	light	both external
FIACUCES	or referencing	is reierendeu.	are minimal.	"grit	documents and internal
	or referencing		are minimal.		sections
	Document is a	Document is	Organization is	Document is well	There is a logical flow to
	jumble and	legible, but many	confusing or prose	organized, but there	the document and
Poadability/	impossible to	spelling,	is convoluted,	are some areas that	prose is clear and
Readability/ Organization	follow	grammatical or	making the	are confusing. Also,	concise.
Jigainzation	IOIIOVV	Vogical errors make	document difficult to	document could be too	oonoloo.
		it difficult to follow.	understand	long and repetitive.	
		it annount to follow.	andorotana	iong and repetitive.	