Trade Analysis for decision of robot										
Priority	Factor	Weight	Lego Mindstorms	ERSP 3.0	Description	Assumptions	Desc on Lego Mindstorms	Desc on ERSP 3.0		
	Easy to assemble	10	10	7	Because developers are beginners, so the robot should be easy to construct		It has a capability for being built in several kinds of robots	It is an end product for H/W bu its software architecture is very flexible		
	Supporting SW programming	10	8	10			it supports the environment of java programming	It supports a sophisticated development environment		
	Flexibility about H/W	15	9	8	For experiment, robot's h/w should be able to change its physical structure.		Because its origin is lego toy, it has powerful changabiligy			
	supporting Java Environment	15	10	0	We are already familiar with java environment		A embedded java environment is provided by open source community	it supports only C++ environment		
	Capability of communicating with a computer	5	7	9	we control the robot using a	computer, we could	A communication with a computer is a mandatory process	it supports both stand alone and communication mode with a computer.		
	Capability of detecting a moving objects	5	5	9	The robot should detect an invader in the limited area		It provides a simple detecting funciton by using a ccd camera	It basically provide vision functionality with a camera facility.		
	Capability of moving	5	7	10	The system should detect an invader in the limited area	sense the surrounded	a number of wheels is up to us	it has 2 wheels and a castor for moving around		
	Possibility to control it through internet	10	7	8	a distance control and	We should use the embeded java environment	Lego itself do not support it	It may have communication facility		
	under \$2000	25	10	5	our total cost should be under \$2000		it's cheap, so we may have no problem of buying that	it is expensive and exceeds \$10000		

	TOTALS	100	8.8	6.35				
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