system work breakdow	n structure (SWBS 3.1) definition {composite metamodeling strategy}
	Structure (3WB3 3.1) definition (composite metalmodeling strategy)   Schedule (values=hours green=done red=in progress blue=ongoing purple=stopped orangerspending change yellow=planned)
	unique identification sequence (UIS)   υ j jul aug sep oct nov dec
project/budget/schedule/task/objective/resourc e/work item description & definition	breakdown structure   entity to entity relationship model
project master information model	relationship model 본 기계 12 3세 12 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4
project master information model	00012-0000_BB-IMB 1p1.IWi.a.a   0   0   0   0   0   0   0   0   0
project budget & finances	00012-9900_DD-MD rbf.M.a.a 0
profit/fee cost	00012-0900_FE-BE rrf.M.a.a 0
business rent	00012-0900_FS-US rrp.M.a.a 0
business utilities	00012-0900_FS-IS rrp.M.a.a 0
project schedule & timeframe	00012-9900 DD-MD rsf.M.a.a     1040
project tasks, goals & objectives	00012-9900 DD-MD rtf.M.a.a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Build a hybrid 4 wheeled-limbed partial prototype	00012-0900_FB-TB rtp.M.A.a 40 😜
Build a steep slope driving/walking test platform	00012-0900 TG-BG rtp.M.A.b 40 😝
Demonstrate stable 4 wheel driving on steep slopes	00012-0900 TG-BG rtp.M.A.c 40 8
Demonstrate stable quadruped wheel-locked walking	00012-0900 FB-TB rtp.M.A.d 80 R
Demonstrate stable hybrid quadruped- wheeled walking	00012-0900 TG-BG rtp.M.A.e 80
Demonstrate stable bipedal wheel-locked walking	00012-0900 TG-BG rtp.M.A.f 80

system work breakdow	n structure (SWBS 3.1) definition {composite metamodeling strategy}													
		schedule (values=hours green=done red=in progress blue=ongoing purple=stopped orang												
	progress blue=ongoing purple=stopped ording	ang												
	unique identification ecquence (LIIC)													
project/budget/schedule/task/objective/resourc	breakdown structure   entity to entity relationship model													
e/work item description & definition	relationship model	234												
Demonstrate stable hybrid bipedal-wheeled walking	00012-0900_FB-TB rtp.M.A.g 80 80 80													
Demonstrate transition between 4 wheel														
driving to hybrid quadruped-wheeled walking	00012-0900 TG-BG rtp.M.A.h													
Demonstrate transition between 4 wheel		T												
driving to hybrid bipedal-wheeled walking	00012-0900 TG-BG rtp.M.A.j 160 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\perp \! \! \! \! \! \perp$												
Demonstrate object grasping/transportation														
while hybrid bipedal-wheeled walking	00012-0900_FB-TB rtp.M.A.j 160 160 160 160 160 160 160 160 160 160	Ш												
Optimize and tweak programming functions		Ш												
and parameters while testing full system	00012-0900_TG-BG_rtp.M.A.k	144 200												
project resources	00012-9900 DD-MD rrf.M.a.a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
general & management	00012-9900_DD-FD rrf.M.a.a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$+\!\!+\!\!\!-$												
general & management		+												
research & development team	00012-0100_OP-TP rrp.A.a.a 1456 Charles Color Co	2000												
team members	00012-0100_OP-TP rrp.a.a.b 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ш												
		Ш												
Jed Ferreras	00012-0100_OP-EP rrp.c.a.a 1040													
oca i circias	00012 0100_01	144												
		Ш												
Aidan Murphy	00012-0100_OP-EP rrp.c.a.b 208 <mark>დდდდდდდდდდდდდდდდდდდდდდდდდდდდდდდდდდდდ</mark>													
Eric Tung	00012-0100 OP-EP rrp.c.a.c 208	0000												
production & manufacturing	00012-1900 DD-FD rrf.M.a.a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
materials, tools, & equipment	00012-1100_DD-PD rrp.M.A.a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ш												
sheet & plate materials (metal & plastic)	00012-1100_DD-CD rrc.M.a.a 0													

system work breakdow	n stru	ctu	ure (SWBS 3.1) definition {compo	site r	ne	tar	mo	de	lin	a s	stra	ate	av	}								
project/budget/schedule/task/objective/resourc e/work item description & definition	uniq bre		sched progres e= j jul				ule (values) s blue=o pending aug				=h goi nar se	oui ng  nge p	pui  ye	rple llov	e=s w=	stopped planned			lorang d) dec			
aluminum sheet metal (.125, .25, .375, .5 in thick)			relationship model 00012-1100_DD-CD rrc.M.a.b	0																		
aluminum extrusion materials & accessories			00012-1100_DD-CD rrc.M.a.c	0																		
fasteners			00012-1100_DD-CD rrc.M.a.d	0																		
brearings, shafts, collars, joints, motors, gearboxes, wheels, drivetrains & other mechanical hardware			00012-1100_DD-CD rrc.M.a.e	0																		
electrical, sensors, microcontrollers, galil controller & other electronics hardware			00012-1100_DD-CD rrc.M.a.f	0																		
magnets, copper wire, & other linear electromagnetic actuator materials			00012-1100_DD-CD rrc.M.a.g	0																		