Decision / Pugh Matrix – Control Strategy Selection (Week 3)

Criteria	Weight	A: Reactive	A: Weighted	B: Time-Based	B: Weighted	C: State-Based	C: Weighted
Devlopment Time	0.2	5	1	4	0.8	3	0.6
Reliabilty	0.25	2	0.5	3	0.75	5	1.25
Ease of Debugging	0.15	3	0.45	3	0.45	4	0.6
Junction Accuracy	0.25	1	0.25	3	0.75	5	1.25
Scalability	0.15	1	0.15	2	0.3	5	0.75
Total Score	1		2.35		3.05		4.45

Option C was selected due to superior reliability, junction accuracy, and scalability despite longer development time.