

Figure 1: Data Analysis for Picket Fence

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$X\text{ (m)} = 0.05$

i	L P Time (s)	T _i (s)	t _{xi} (s)	x _i (m)	t _{vi} (s)	v _i (m/s)	t _{ai} (s)	a _i (m/s ²)	a _{est} (m/s ²)
0		0		0					
1	0.036956	0.036956	0.036956	0.05	0.018478	1.35296			
2	0.0666752	0.029719	0.066675	0.1	0.051816	1.682414	0.035147	9.882349	9.7941
3	0.0922976	0.025622	0.092298	0.15	0.079486	1.951418	0.065651	9.721564	9.7941
4	0.1151556	0.022858	0.115156	0.2	0.103727	2.187418	0.091607	9.735912	9.7941
5	0.1359592	0.020804	0.135959	0.25	0.125557	2.40343	0.114642	9.894837	9.7941
6	0.1552032	0.019244	0.155203	0.3	0.145581	2.598212	0.135569	9.727537	9.7941
7	0.1731792	0.017976	0.173179	0.35	0.164191	2.781486	0.154886	9.848146	9.7941

