Tobor Inc Automation Process

J. R. Harper
QA Consulting
Project Supervisor: Roberto Fernandez
Chris Lucas: Consultant Project Liason

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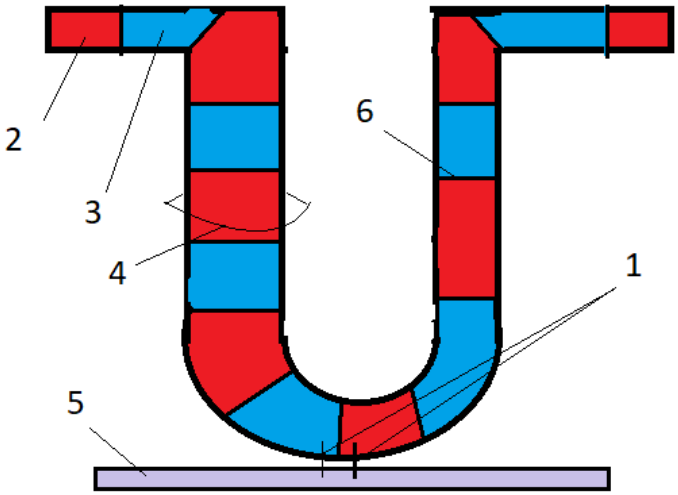

Figure 1: Horseshoe Racetrack Memory Design

$$\dot{\boldsymbol{M}} = \boldsymbol{\gamma M} \; x \; \boldsymbol{H_{eff}} - \boldsymbol{\lambda M} \; x \; (\boldsymbol{M} \; x \; \boldsymbol{H_{eff}}) \tag{1}$$

Capping Layer Parameter	Permalloy (80/20)	Nickel	Iron
Magnetic Saturation (kA/m)	800	484	1730
Exchange Constant (pJ/m)	13	10.5	21
Density (kkm/m3)	8.74	8.90	7.87
Electrical Conductivity (MS/m)	14.05	0.4	10
Anisotropy Constant (MOe)	47	6	10

Cap Metal	Density (kkg/m)	Electrical Conductivity (MS/m)
No Cap	n/a	n/a
Gold	19.3	41
Palladium	11.9	10
Ruthenium	12.2	14
Tantalum	16.65	7.7
Platinum	21.45	9.43
Nichrome	0.84	1