**SERVO SYSTEMS MECHANICAL ISSUES**

That must Solve with Servo-Driver

**Motor side sourced**

Inertia (J) identification (Load moment issues)

Viscous firiction Coefficient (B)

**Mechanical side sourced**

Mechanical Resonance (at low frequency)

Mechanical vibration (general problem – Suppression issues)

Mechanical Friction (various with respect to mechanics)

Mismatch – Uncertainties (high frequency)

Non-Periodic or Periodic disturbance suppression

Unbalanced torque (load sourced or motor sourced)

Temperature Dependence (Required electrical parameter Rs, Ld, Lq Estimation)

High frequency response issue

**Mechanical side system components that cause disturbance, friction, vibration, sliding ...**

Couplings (torsions)

Screw

Bearings

Conveyor Belt (stretch)

Gear wheel

Rail motion with jogging (inverted pendulum problematic)