Use your method of choice to find the Jacobian for the following manipulators (or parts of manipulators) where details (diagrams, DH Frames, and DH Tables) for each were provided in a handout.

Due: Th 10/15/2013

1. Adept Cobra s800 SCARA

EE 548

- 2. First three links of Stanford Arm to wrist's center, i.e., the Jacobian that maps $[\dot{\theta}_1,\ \dot{\theta}_2,\ \dot{d}_3]^T$ to $[\dot{\sigma}_3^0,\ \vec{\omega}_{0.3}^0]^T$
- 3. Last three links (spherical wrist) of Stanford Arm, i.e., the Jacobian that maps $[\dot{\theta}_4,\ \dot{\theta}_5,\ \dot{\theta}_6]^T$ to $[\dot{\sigma}_6^3,\ \vec{\omega}_{3,6}^3]^T$