

**Department of Electrical and Computer Engineering
Stony Brook University**

ESE 501 System Specifications and Modeling (Fall 2009)

Project Task No. 2

This assignment is **due November 17, 2009 in class**. No electronic copy will be accepted.

Description: Implement in SystemC to do the following:

- We will focus on the robustness of the mechanism and the application level support.
- Integration of failure detection mechanism
- Integration of recovery mechanism.
- Integration of reconfiguration mechanism. The reconfiguration involves the modification of the planning.
- Test1: The completed system should operate with some failures.
- Test2: The completed system should handle recovery.
- Test3: The completed system should balance the robots.
- Test4: The completed system should move the entire robots to new clusters.