

Contract for ECE 4542/4522  
Team: SECON Teams 1 & 2  
Advisor: Dr. Robert Reese  
Instructor: Dr. Robert Reese

The following states the terms for which satisfactory results will be attained for ECE 4542 and ECE 4522. The signature of all parties stands as agreement by all parties on all terms of said contract.

**I. Project**

Members of both teams shall work together to construct one robot for competition purposes in the IEEE 2006 SoutheastCon Hardware Competition. This robot shall be a package sorting and delivery robot that adheres to competition rules as mandated by the IEEE SoutheastCon committee.

**II. Robot Requirements**

The constructed robot must meet the following requirements:

- The robot must be no larger than 8” wide by 8” long by 12” high.
- The robot must deliver all four packages corresponding to Airplane 1 to said plane within 3 minutes of the beginning of the round.
- The robot must deliver all four packages corresponding to Airplane 2 to said plane within 4 minutes of the beginning of the round.
- The robot must deliver all four packages corresponding to Airplane 3 to said plane within 5 minutes of the beginning of the round.
- The previous three delivery requirements must be achieved regardless of the order in which the packages are found at the package chute.
- In the event that the above delivery requirements cannot be met, a contingency plan must be developed to score the maximum amount of points possible.
- Upon completion of all three deliveries in a single round, the robot must activate a blue L.E.D. to signify that it has accomplished the task.
- The robot must load each airplane’s corresponding packages from the “Loading Zone” side associated with that plane. This area is the side of the plane that is closest to the starting square, as mandated by the IEEE SoutheastCon Hardware Competition committee.
- The robot must not move any of the airplanes out of position to where the white paint underneath each airplane can be visible.
- During a single round, the robot must achieve all the aforementioned requirements without any outside assistance (from team members or any other party).

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X \_\_\_\_\_  
Rahul Bhakta

X \_\_\_\_\_  
Victor Alfaro

X \_\_\_\_\_  
Sakinah Reid

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X \_\_\_\_\_  
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