



# SMART Restaurant Challenge

GEARBOTS Educational Resources

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## Description of the challenges:

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### 1. Missions from the ALPHA BASE

#### **Primary Mission A: Food Delivery (Hot Food Hot)**

Your robotic device must travel from the ALPHA BASE to the FOOD PICK-UP ZONE, collect the FOOD BLOCKS, move the FOOD BLOCKS to the FOOD ORDER DROP ZONE, and return back to the ALPHA BASE.

#### **Primary Mission B: Busing the Table (Clearing the Table)**

Your robotic device must travel from the ALPHA BASE to the BUSING TABLE ZONE, collect the DISH BLOCKS, push the DISH BLOCKS to the SINK DROP ZONE, and return back to the ALPHA BASE.

#### **Primary Mission C: Collecting Cash Payment**

Your robotic device must travel from the ALPHA BASE to the CASH PAYMENT ZONE, collect the CASH PAYMENT BLOCK, push the CASH PAYMENT BLOCK to the CASH BOX DROP ZONE, and return back to the ALPHA BASE.

**Extension Mission:** Can only attempt this Extension Mission once all Primary Missions from the ALPHA BASE have been successfully completed/evaluated by the judges.

**Extension Mission D: Collecting Cash Payment** Your robotic device must travel from the ALPHA BASE, pickup the BLUE/RED ball representing the CASH PAYMENT from the CASH PAYMENT ZONE TOWER, deliver/drop the CASH PAYMENT into the CASH BOX DROP ZONE CONTAINER, and return back to the ALPHA BASE.

### 2. Missions from the BETA BASE

#### **Primary Mission E: Taking the Order**

Your robotic device must travel from the BETA BASE to the TAKE ORDER ZONE, follow the line (the length of the table), and return back to the BETA BASE.

#### **Primary Mission F: Lost and Found**

Your robotic device must travel from the BETA BASE, collect the LOST AND FOUND BLOCK, push the LOST AND FOUND BLOCK to the LOST AND FOUND DROP ZONE, and return back to the BETA BASE.

#### **Primary Mission G: Dropping off the Cheque**

Your robotic device must travel from the BETA BASE to the CHEQUE PICKUP ZONE, collect the CHEQUE BLOCK, push the CHEQUE BLOCK to the CHEQUE DROP ZONE, and return back to the BETA BASE.

**Extension Mission:** Can only attempt this Extension Mission once all Primary Missions from the BETA BASE have been successfully completed/evaluated by the judges.

**Extension Mission H: Dropping off the Cheque** Your robotic device must travel from the BETA BASE, pickup the BLUE/RED ball representing the CHEQUE from the CHEQUE PICKUP ZONE TOWER, deliver/drop the CHEQUE into the CHEQUE DROP ZONE CONTAINER, and return back to the BETA BASE.

