



# CHALLENGE 2

## URBAN CHAOS ... JUST PASSING THROUGH

### DETAILS

SKYSCRAPERS ARE EVERYWHERE IN LEGO CITY AND IT WOULD SEEM THAT GETTING ACROSS THE CITY WAS NEVER A THOUGHT. BUILD AND PROGRAM A ROBOT TO CROSS THE CITY. LEGO CITY WILL BE A 4' X 4' BLACK BACKGROUND WITH WHITE LINES BORDERING THE LEFT AND RIGHT SIDES. THE SKYSCRAPERS SCATTERED THROUGHOUT WILL BE LEGO TOWERS THAT ARE APPROX. 5" WIDE AND 10-12". YOUR ROBOT MUST START AT ONE SIDE OF THE COURSE AND TRAVEL TO THE OTHER SIDE, STAYING ON THE MAT AND AVOIDING ALL LEGO TOWERS.

### THINGS TO KEEP IN MIND

YOUR ROBOT MUST STAY INSIDE THE WHITE LINES THAT BORDER THE LEFT AND RIGHT SIDES.

YOUR ROBOT CANNOT TOUCH ANY LEGO TOWERS.

### SCORING

[DEMONSTRATION SCORE DOUBLED IF PRIMARY CHALLENGE]

(100) DESIGN AND PROGRAM ALGORITHM

(25) STABILITY

(25) ORIGINALITY

(25) IMPLEMENTED SENSORS AND ADAPTED TO SITUATION

(25) COMPLETED IN TIME FOR SCHEDULED JUDGING

(100) DEMONSTRATION

(80) STAYED ON BOARD AND AVOIDED TOWERS

(20) MADE IT OUT OF LEGO CITY

THERE IS A 10PT DEDUCTION (MAX 50) FOR EVERY TOWER YOU RUN INTO

THERE IS A 10PT DEDUCTION (MAX 30) FOR EVERY WHITE LINE YOU CROSS