Carl-Bot – Group 8\_30

# Demo Tasks

* Startup (start the program)
* Zeroing procedure (Zero Axes)
  + Return both X and Y axis to the ‘zero’ corner cell
* Display time remaining before move is made
* Take User Input
  + Interpret cell input and translate it to a move on the board.
    - Be able to input any cell with the EV3 buttons.
* Move Piece
  + Pick up the desired piece and move it to the selected cell on the board
* Capture Piece
  + When the selected cell has an opposing piece, it will;

1. Go to the opposing chess piece and pick it up
2. Bring the piece to the “captured” section, outside the bounds of the board
3. Return to zero
4. Move the desired piece to the newfound open cell

* Ignores Input while moving and making a move
* Zeroes after every move
* Shutdown
  + Will display who won the game (by resignation of a player)
  + Will zero the axes for quick initialization if a rematch is wanted
  + Will terminate the program
* Time permitting, play a game with TA available
  + If TA loses, course project mark will be changed to 100 :)

# List of Specifications

## Success Criteria

* Board Mapping
* Getting User Input
* Axial Movement
* Piece Pickup and Placement
* Logic for Piece Capturing

## Constraints

* Size and position of chess pieces
* Board size and position
* Predetermined movements
* Put captured pieces as far from the playing area as possible

Project Work Declaration

We declare that the design, including configuration of the robot and the software, in this project is our  
original work completed during the current school term for the MTE 121/MTE 100 course project except  
as noted below.

Please list all sources, including who you collaborated with outside of your team and the teaching team  
and what the collaboration entailed, or under what circumstances some of the work was obtained  
outside of the current MTE100/GENE121 school term:

We declare that we have neither given nor received an electronic copy or a printed version of any part  
of this design except as stated above.

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| --- | --- |
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