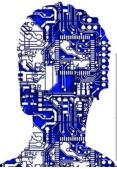


# **Milestone Progress**



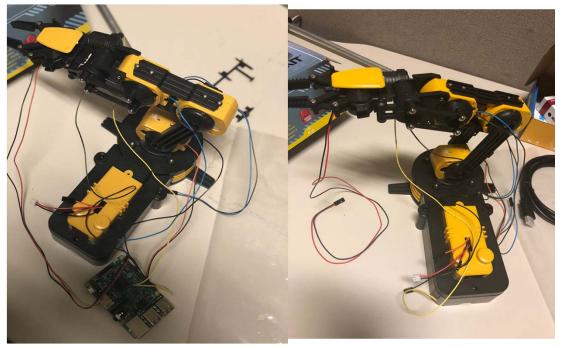
ininin.	Arm Construction	Tic-Tac-Toe Al		Arduino/Raspberry Pi Communication
•	Done	Done	On Going	On Going

### **Achievement Vs. Expectation**

Expected to be fully complete. Still on schedule to be complete in time for Final Presentation



# **Current Progress**



# **Activity Summary**

### Lowlights:

- Mechanical Engineer Student a little behind for the CAD design of the Tic Tac Toe Grid
- Still have to make event interface for AI's communication with the physical world.

### Highlights

- Arm has been constructed
- AI has been tested to works
- Learning to be familiar with Raspberry Pi

### Untitled-2 - Visual Studio Code File Edit Selection View Go Debug Tasks Help Untitled-1 E Untitled-2 • .... D ▲ OPEN EDITORS 1 UNSAVED def ArmMove(Duration, ArmCmd): Untitled-1 Ω ● ≣ Untitled-2 #Start Movement Arm.ctrl\_transfer(0x40,6,0x100,0,ArmCmd,1000) ▲ NO FOLDER OPENED Ŷ time.sleep(Duration) You have not yet opened a n <u>L M</u> in folder. #Stop Movement 8 ArmCmd=[0,0,ArmLight] Open Folder Arm.ctrl\_transfer(0x40,6,0x100,0,ArmCmd,1000) #Establish a connection with the wiimote print 'Connected to arm successfully.' print ' ' print 'Press 1 and 2 on the wiimote at the same time.' #Connect to mote and if it doesn't connect then it tells us and tries again time.sleep(3) print " print 'Establishing Connection... 5' BETARDA time.sleep(1) print 'Establishing Connection... 4' time.sleep(1) print 'Establishing Connection... 3' Wii = None while (Wii==None): try: Wii = cwiid.Wiimote() except RuntimeError: print 'Error connecting to the wiimote, press 1 and 2.' 🔨 🛎 🔂 🔺 🔲 🗙 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Git Looking for git in: C:\Program Files\Git\cmd\git.exe 奋 Looking for git in: C:\Program Files (x86)\Git\cmd\git.exe 0400 Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Plain Text 🙂 🔔 12:01 PM O Type here to search e Ý -Ļ (\_) RR へ 哲 🍊 ₫× 4/3/2018

# **Risks/Mitigation**

## Risks

• Camera original installation place might be a problem when moving the arm.

### Mitigation

• Determined not to be the case as long as it is attached properly.

# Steps To Be Completed

- Completion of Raspberry Pi Integration
- Completion of OpenCV event listener
- Linking Together All Processes
- Testing