

TITLE Team Meeting

Project No. _____

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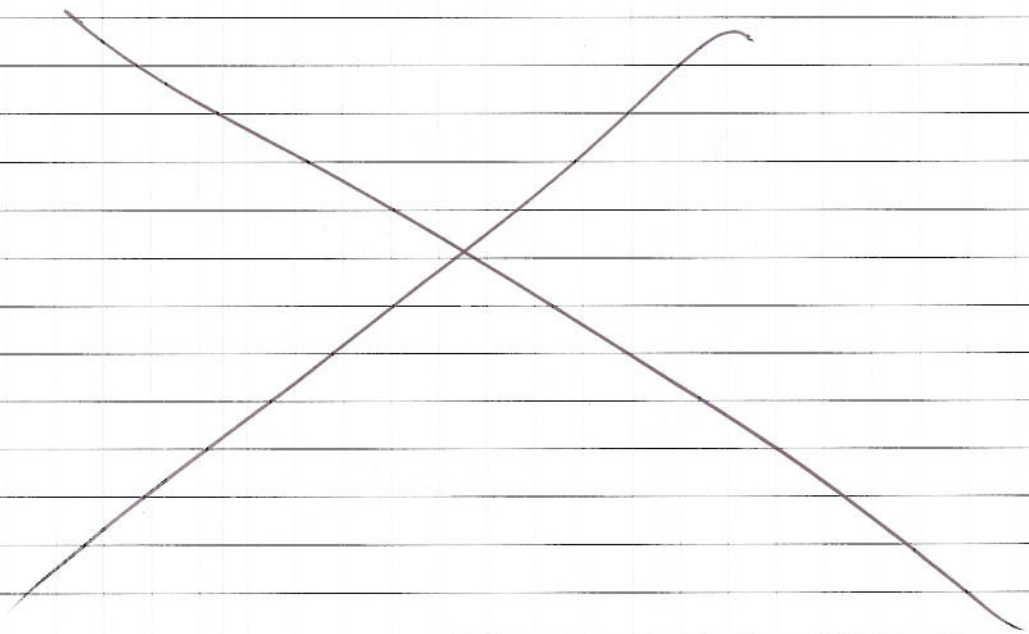
Review C-code

- this is the programming language used

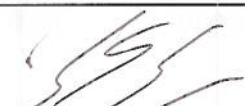
- pick up Renesas board for interfacing practice using C coding.

Keep everything simple. It's better to have something simple that works all the time rather than complex that barely works

* Meet Conrad this Friday



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TITLE Conrad Meeting

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Need to start IDing materials needed for ^{future} PO. Look through robot - use any old parts.

\$1K budget - no exceptions

Some rules:

- 1) No tape (screws & bolts preferred)
- 2) Locks on connections
- 3) If it works, don't change it
- 4) Fresh batteries

ASME may be able to help - find his email and contact him.

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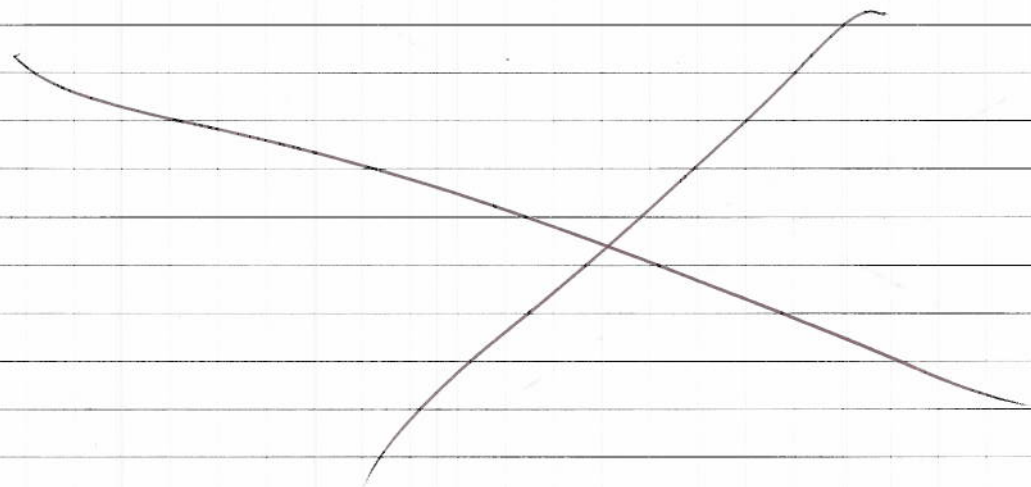
10/24/08

TITLE Price of Materials



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Lowes

6' Topsoil turf carpet	43¢/ft ²
12' Ivy Topsoil turf	44¢/ft ²
1/16" x 1" - 8' Alum. angle	\$11.97
1/16" x 1/2" - 8' Alum angle	\$ 5.47
24" x 30" steel sheet	\$119.97
10/24 x 3/8" 10 screws + nuts	98¢
Light switch	\$14.57
cord organizer	\$15.98
500' 14 solid THHN wire	14¢/ft
circuit breaker	\$13.11



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Met w/ Archana, Arpana + Subu 9:15am - 10:30am

— Use DC motors?

— Look at servo motors.

— Can re-use servo motors from old robot.

* Design recyclable entry.

• Get better idea of design.

• Come up w/ PO

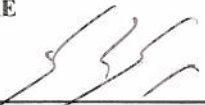
• Steven will research motors

• Work on Renesas board.

• Richard looks at mechanic operations.

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DATE

11/07/08

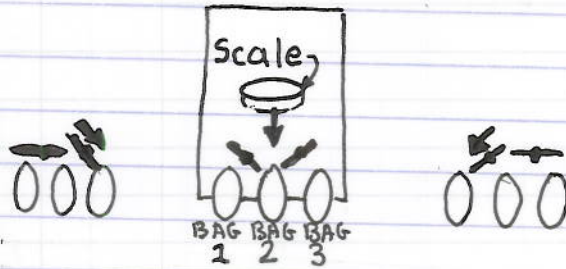
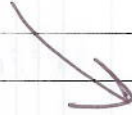
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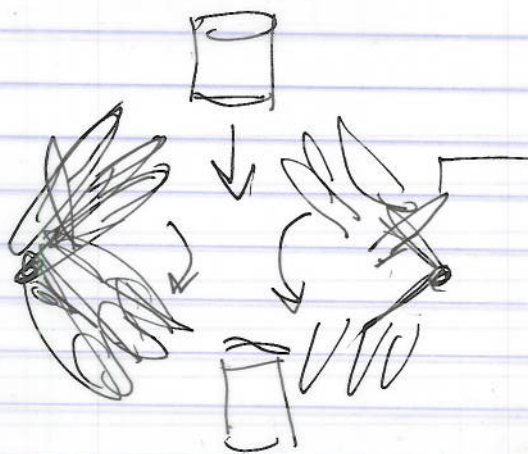
TITLE Drawings

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Sorting drawing



Entry (collection) for robot



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11/08/08

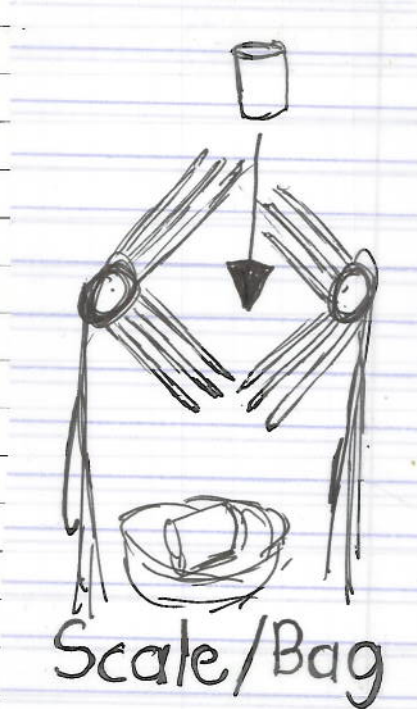
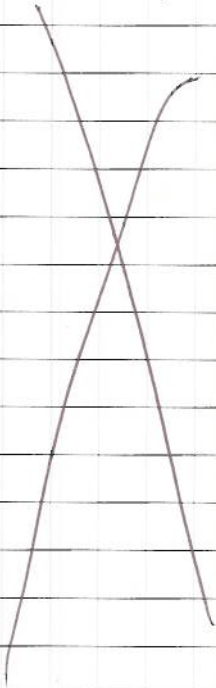
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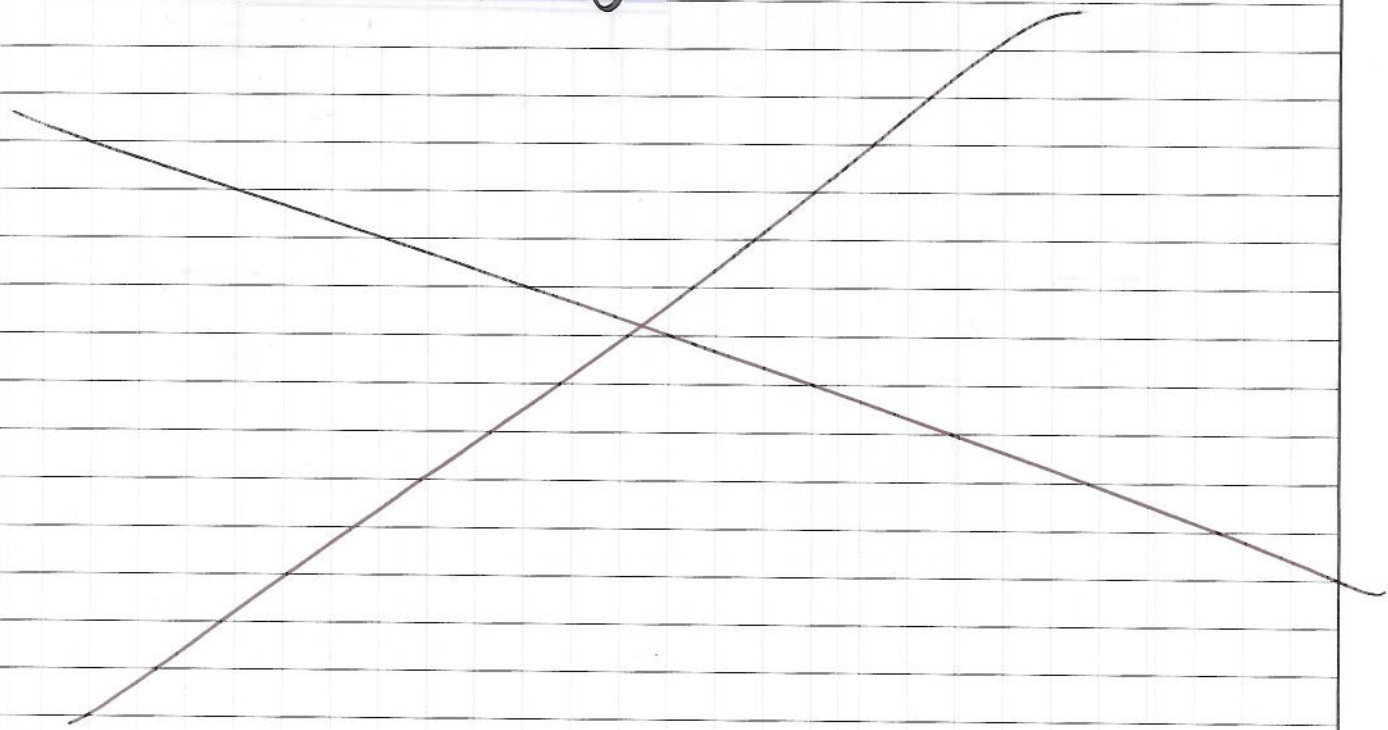
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Better drawing for item collection.



Detection is accomplished by use of the SRF05 sensor. After detection, 3 pairs of aluminum rods acting as arms would sweep the recyclable into the robot.



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TITLE Drawings

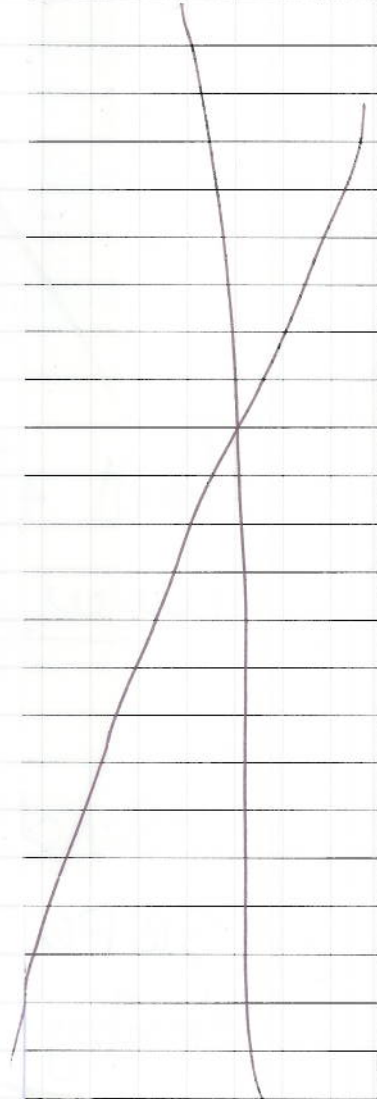
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Illustration of Robot design #2

A sweeper
w/ mounted
sensors sweeps
a single recy-
clable up on
an angled ramp
that would then
lift up through
either spring
action or a
component
that can
expand to be



Astroturf...



placed under the ramp so that the recyclable will be
able to fall on a scale inside the robot later used for sorting

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4/20/08

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Talked about phidget force sensor.
— could be used to detect weight of objects.

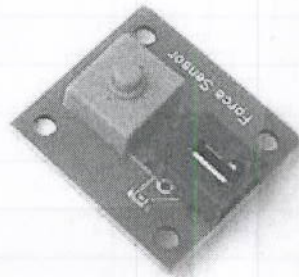
Phidget Force Sensor

(SKU# 33030)
\$9.13 USD

QTY  add to cart

10+ Units for \$8.22 each.
25+ Units for \$7.76 each.

Status: In Stock



Hall effects sensor?

www → robotics marketplace
→ high priced.

Send email (Decoder)

SR FOS - free can use 4/5

Hobby Engineering

→ OK for BOM

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11/21/08

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TITLE Conrad Meeting Cont'd

Book No. _____

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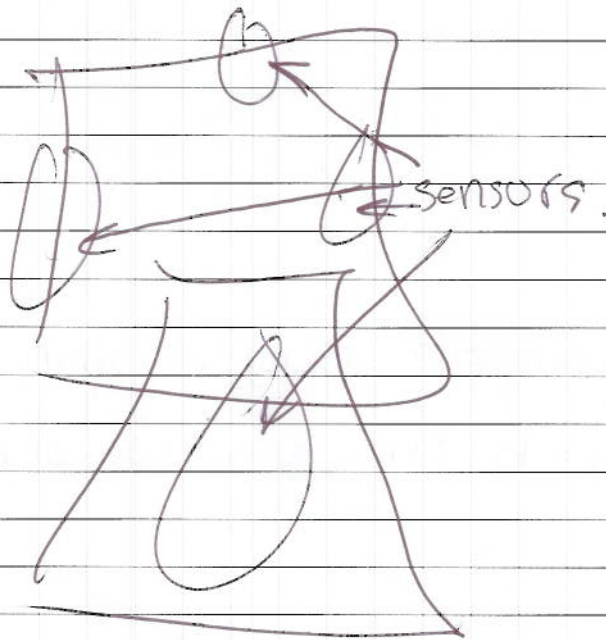
Send two POs in excell file

→ lowes

→ something else?

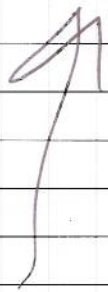
Study Bearing

→ Servo's w/ Gears?



Use convex casters

→ find good casters



coming in

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DATE

11/23/08

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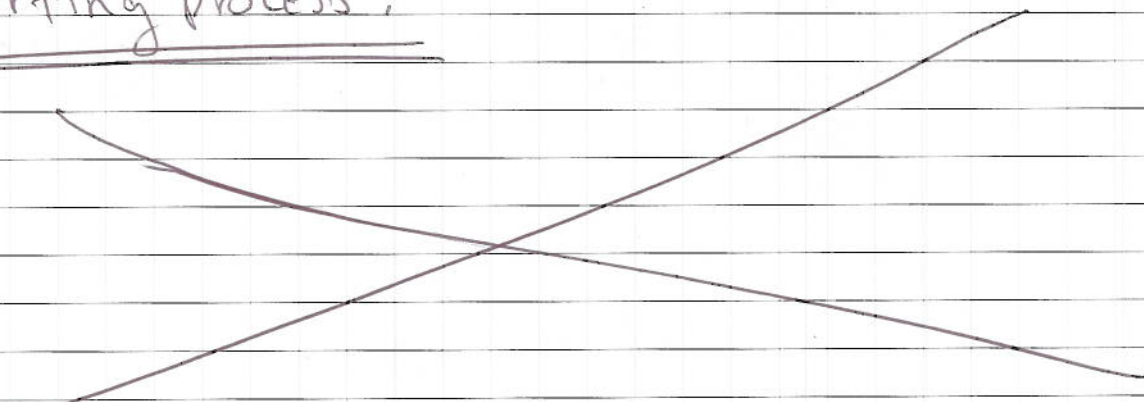
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w/o any sorting w/ simplicity in mind, this design features a bag engulfing the entire body of the robot.



This design allows complete usage of space w/ error reduction due to the omission of a sorting process.



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DATE

11/25/08

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TITLE Submissions

Project No. _____

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Team met & sub changes and updates were made to the Gantt Chart & P.O.

More discussions on Design

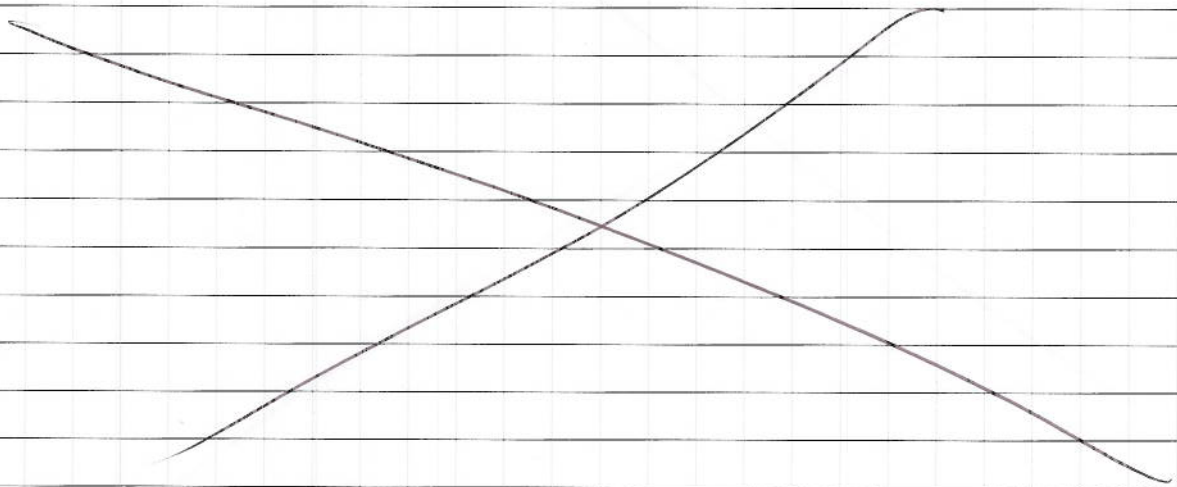
→ Use simple design idea (Implement this first)

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→ Omit Sorting process

Submission of P.O. to Conrad

→ Meeting setup for Poster & documents.



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DATE

12/01/06

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IEEE Project - Design for Review Document updated.

Gantt Chart updated

Poster layout created

P.O. updated

→ Setup meeting on 12/07/08

→ Need to ask about printing the poster!

→ Email Conrad Design Doc.

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SSS,

DATE

12/04/08

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