

## Meeting 1

- Updates
  - Kyle
    - What we need
      - Wincaps is the best choice
      - Contact the denso representative
  - Stephen
    - Do have power
      - Have single phase but the plug is set up for three phase so just need a different attachment
  - Andy
    - Standard research
      - Use any materials no certain safety materials
      - Shut off feature
      - No roof
      - Safety glass
- This week
  - Solid works
  - Purchase the items
- Design requirements
  - Safety feature
    - Big red button
    - Door lock
    - Look into light gate
  - Putting two together
  - Making them mobile
  - Storing equipment and cables
  - Type of material for enclosure
- This week
  - Design sketches
    - Ideas for enclosure look online
  - Up and running computer with software
  - Contact denso
    - Order items

## Meeting 2

- Updates

- Stephen
  - Might as well go ahead and buy a computer
- Will
  - Ran the model on solidworks but ran into certain issues
- Kevin
  - Bought the pendant and I/O devices and software
- Andy
  - Looked into the structural design
  - Found materials that we could look into and need
  - 8020 best for the base
- Jacob
  - Played around with the software a little bit

### Meeting 3

- Updates
  - Make two different design options
    - One with light curtain
    - Got further on the cad drawings
    - Another with gate latch and doors
    - Need industrial safety standards
      - Multiple redundancies type 4
- Budget
  - Think overall budget
  - Explains what we will give them for the amount of money they spend
  - Use double redundancies so the initial cost is higher so you have things to cut
  - Have a cover page
    - Benefits
    - Why they need it
  - Line items of parts rough bill of material
  - Need to include shop fees or not?

### Meeting 4

- Budget changes
  - Drop the decimal places
  - Make sure to have specific meaning and why we need the device or part

- Try and make it without wheels
- Don't worry about the looks of it in the room it's currently in
- 8020
  - When you get it to where you want to drill and tap the holes to make it strong and more durable
  - Want it to be stable
- Workspace
  - Have everything on one side
  - Make the robot more off centered
  - Light curtain along with the front door and no safety switch
  - Find things other than bolts such as cams
  - Possibly have the magnetic safety switches around the two ends to make sure the enclosure is properly connected

## Meeting 5

- Need to submit a wiki bio about me by fri
- Wiki
  - Ongoing timeline of what we have done for the public
  - Share our ideas and what is going on
  - For other teams and the public
  - Tutorials
  - Instruction manuals
- Thinking about a new design of having two outside halves and all electronics and everything on the center piece
- Open up our minds a little. Don't get close minded
- Start thinking about a design review. Sometime in mid November
  - Department chairs of ece and me. Michael client and Robert.
- This week
  - Design plans
  - Emailing the different parties
  - Get prices
  - bios

## Meeting 6

- Updates
  - Got confirmation that they bought software and teaching pendant
  - University pays with credit card

- My update
- Wiki is all good
  - Have it all updated with bios
- Department chairs are meeting and want to know about a second robotic workstation and meeting at 4:30 today
- Design ideas
  - Have the sides fold in on hinges
    - They collapse to break down small enough to not have to be broken down
    - Easier to connect the two robots
    - More mobile
  - Have a locking mechanism
    - Clamshell sides
- In two weeks we are having a full design review
  - Have 3 cad designs
  - Find sizes for the enclosure of the electronics
  - Come up with 3 configurations of circuits for safety

## Meeting 7

- Need to find a time to meet for PDR
  - Tues 4:30 ?????
  - Ask Barlow if he can make it
- Check and see if the software is actually a site license
- Presentation
  - Folding in
    - Still needs to fix the CAD
  - Have one person present ME
    - Present the 3 CAD models
  - Have one present ECE
    - Share our ideas about the circuits
  - Who is our audience
- Meet at 12 sat at gj robotic lab



