

Grab - Wicke

- Camera (Done)
- Arm
 - Structurally needs 360 servos
 - Design (done)
 - Code (needs to be reintegrated)
- EM End effector
 - Research
 - Integration
 - Variable Speed Drill
 - Code *

Go - Matt

- Wheel Servos and motors
 - Wicke is handling replacements
 - Moving (done)
 - Changing direction (Done)
 - Replacement not finished
- Research on optimal movement method
- Assembly with new motors
- Wheel Encoders
 - Code is done (*)
 - Structure is built
 - Needs to be integrated
- H-Bridge
 - Code* is done
 - Structure is complete

Localize

- IMU
 - Code (done)
- IR Sensors/Servos (Max & Roman)
 - 2 Built
 - 2 needed
 - Parts (ordered)
 - Labor
 - Code nearly finished
 - Thinking about sonar

Chassis

- Layout
- construction

Power

- Regulators
 - Design & Construct?
 - Purchase premade?
- Research
 - How many systems need to be powered
- Boot order

Code

- Lower Deck (Arduino)
 - Drivers (everyone)
 - Driver wrappers (Josh)
 - Messenger between boards (in progress) (Josh)
 - Cross-arduino Sketch (in progress) (Josh)
- Upper Deck (Panda)
 - State (Josh)
 - Map Resources
 - scan (about 90% done) (Max)
 - IR modules
 - Triggering
 - Localization
 - Hypobot
 - Scan
 - IMU
 - Puck Recog
 - Localization
 - Pathfind
 - Algorythm
 - Nodes
 - IMU Parsing
 - Localize
 - Move
 - Puck Data
 - Grab the Puck

Move

- Use Ackermans or alternative motive function (Ackermans already done)?
- alternative method
 - Rotate in place (degree in = hbrdige out)
 - Linear Translation
- IMU Alert (Z)

Retrieve

- Electromagnetic End Effector Code
- Camera & arm code

Communication

- Code in progress - severely fragmented
 - Max is using his own model until Josh unifies the architecture.
- need some standardization to make this project more fluid (Josh)
- Panda to Arduino communication (Josh)
- IMU Communication (Mostly complete) (Matt)
- Sensor communication (Mostly complete) (Max)

Mission Status

- Retrieve
- Path finder

Return Home

- Mission Status

Human Interface

- on/off
- master power
- remote terminal(serial)
- noise/led alert

Testing

Startup sequence

- Who are you?
- Power