Preliminary Specifications

# Platform Controller

* Detect EL within 10cm? of center using metal detection
* Notify Embedded Linux via RS232 of EL detection within xx seconds of detection
* Use less than XXX watts/hour of energy
* Communicate with Embedded Linux System over RS232 with a baud rate of 38400
* Motor speed controlled by PID within 5% of setpoint

# Environmental Logger

* Display Sensor data on attached LCD refreshing every half second
* Collect sensor data within an accuracy of +- 15% of BENCHMARK
* Use less than XXX watts/hour of energy

# Platform Supervisor

* Establish wifi connection using socket XX with a baud rate of XXXX
* Process all joystick commands sent from Logitech joystick within xx mS
* Receive and display video stream with less than XX seconds of latency
* Receive and display video stream within compression spec
* Receive and display EL data within xx seconds of arriving home

# Embedded Linux

* Establish wifi connection using socket XX with a baud rate of XXXX
* Send video stream to Supervisor using wifi at a baud rate of xxxxxx
* Capture video / images from robot webcam using USB
* Receive and verify commands sent from supervisor within xxxx mS
* Send commands to Controller within xxxx mS of successful reception
* Indicate to Supervisor EL located within XX S of locating EL
* Operates using UNIX compatible operating system