Weekly Progress Report

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Team 2
Hassam Sultan, Kevin Golebieski, Michael Cahill
Budget

Remaining Budget: $1,689.70
Reverse Engineering

- Air Sensor
- Encoder
Air Sensor

- Air Sensor Mechanism Characterized
  - Destructive Interference (no noise)
  - Upon entry of air, more spikes reach full 2.5V with no recognizable pattern
Light Based (IR – not visible)

Non-inductive interaction proved by paper simulating metal plate

Multiple light sensors
  - Device failure from still paper insertion
  - Square wave from rotating paper insertion

Two pins in CN-5 maybe common

One pin in CN-5 may output square wave for metal passing bracket
LabVIEW® Progress

- 12 states built into Tab Control

Accessible Infusion Pump User Interface
Created by:
Michael Cahill, Kevin Golebieski, Hassam Sultan
University of Connecticut
Department of Biomedical Engineering

Press OK to continue
Press HOME at anytime to return to this screen
LabVIEW® Progress

- Bloomy Control’s Interval Timer VI
Stepper Motor

- LEDs
  - Faults
  - Inhibits
  - Limits

- DIP switches
  - Microstep Rate
  - Peak Output Current
  - Current Reduction

![DIP switches diagram](image)
Stepper Motor

- 2-axis stepper motor connection to stepper motor block
Stepper Motor

- Single-ended Signal Input Encoder Connection to Encoder Block (HEDS)
Work to be Done

- LabVIEW® Interface Completion
- Air Sensor Analysis
- Encoder Analysis
- Stepper Motor/LabVIEW® Connection
- LabVIEW®/Stepper Driver Connection
- Recharging Battery Circuit