ReMutt Control

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UC SANTA BARBARA
engineering

ReMutt Control
What is the ReMutt Control?

• Pet feeding system controllable from your Android device
• Scheduled or remote dispensing of food and water
• Automatically replenishes water
• Receive real time pictures from pannable camera
• Play prerecorded audio commands
Group Roles

- Steven – Group Leader, WiFi, Android
- Joon – Audio, Camera
- Daniel – Audio, External Memory
- Eric – Dispenser, Camera
- Alex – WiFi, Android
Printed Circuit Board Layout
Food Dispenser

Cereal Dispenser + Stepper Motor (GPIO) + Load Cell (GPIO)
Water Dispenser

Water Container + Solenoid Valve (GPIO) + Load Cell (GPIO)
Demo
Future Improvements

• Connect to the internet so device can be used to take care of your pet when you’re on vacation
• Use camera capable of speeding up communication so a video stream can be viewed
• Larger food dispensing canister to feed your pet for longer periods of time
Advice To Future Capstone Students

• Pick a project you are interested in and you’ll enjoy coming to lab

• Pay close attention to the datasheets when designing PCB and purchasing items in the fall

• The more work you put in during the fall the more you can enjoy your last quarter at UCSB!
Special Thanks To…

John Johnson
Eric Goodman
Justin Brunnett

Everyone here today who took time out of their busy schedules to attend and participate in Capstone Day 2014
Questions or Comments?