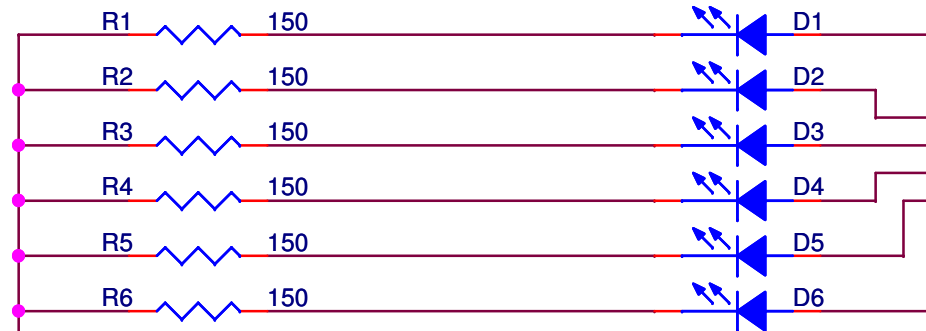
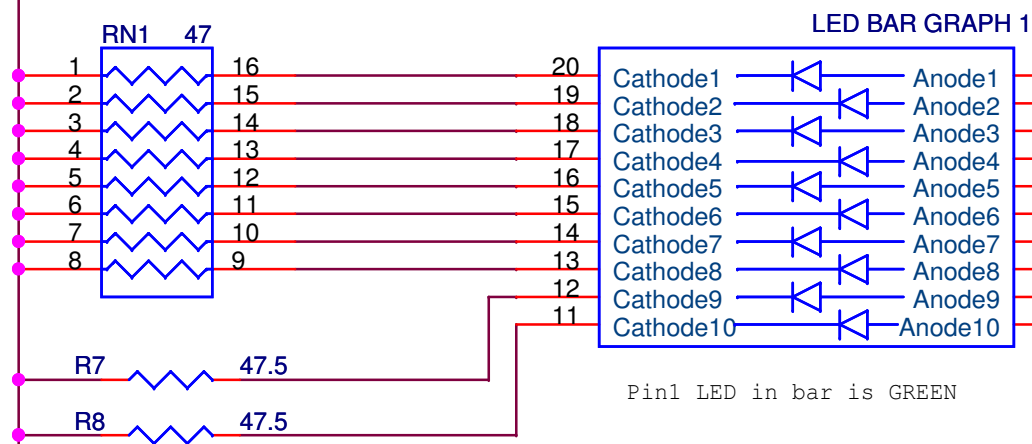


Spec'd to limit to above-avg-typical from 3.3V rail. Still illuminates at full-scale from 3.1V rail.

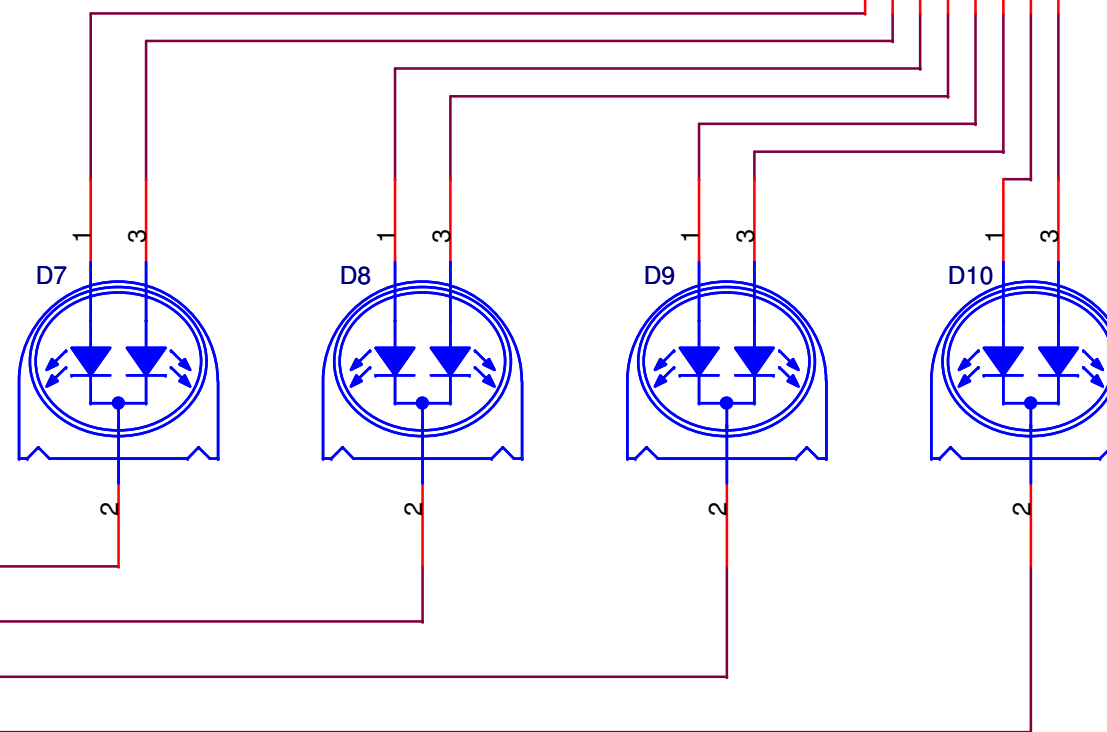
Burning LEDs



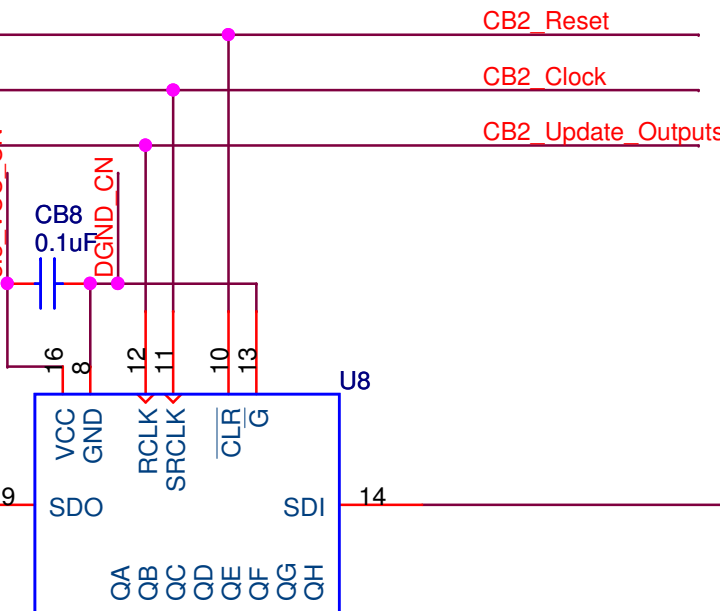
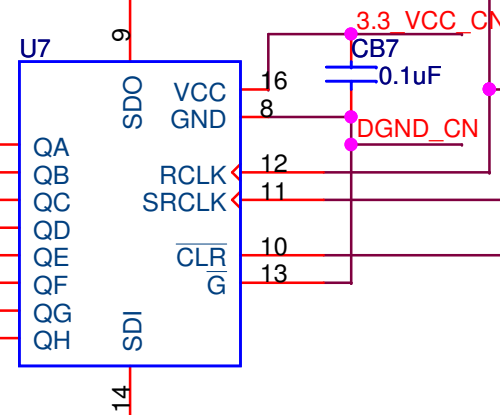
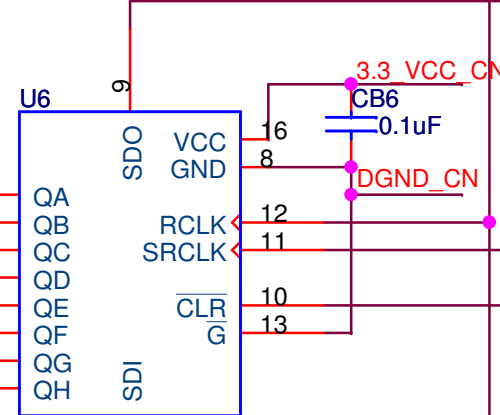
Damage Indicator



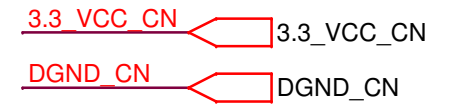
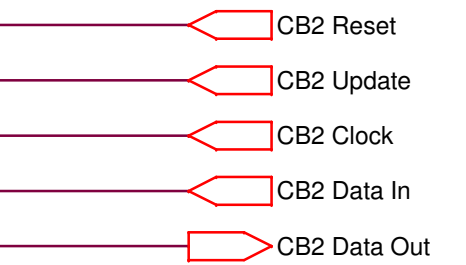
Headlights




Spec'd to light in all three colors.
Current divides when both lamps are on so spec'd for 20mA per single color and 10mA each dual.

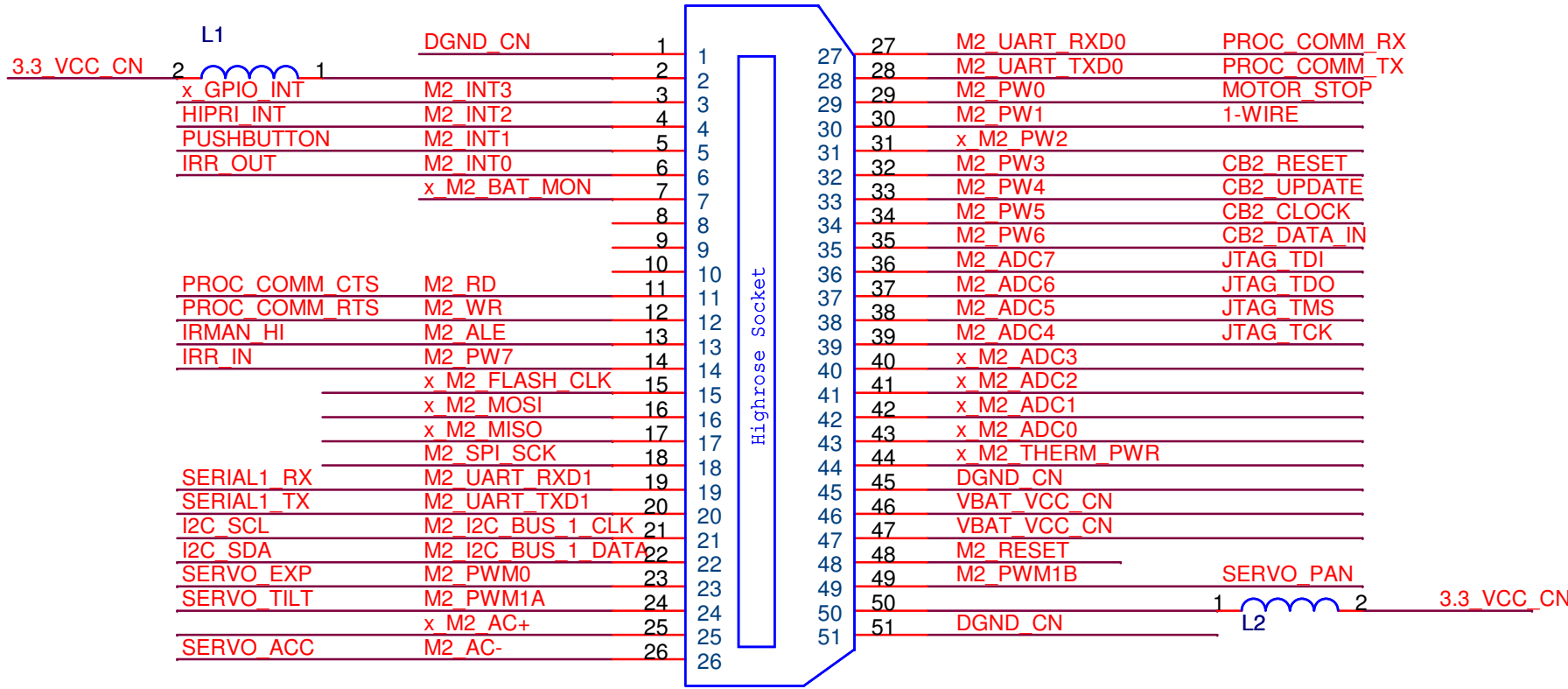


CB2 Bus

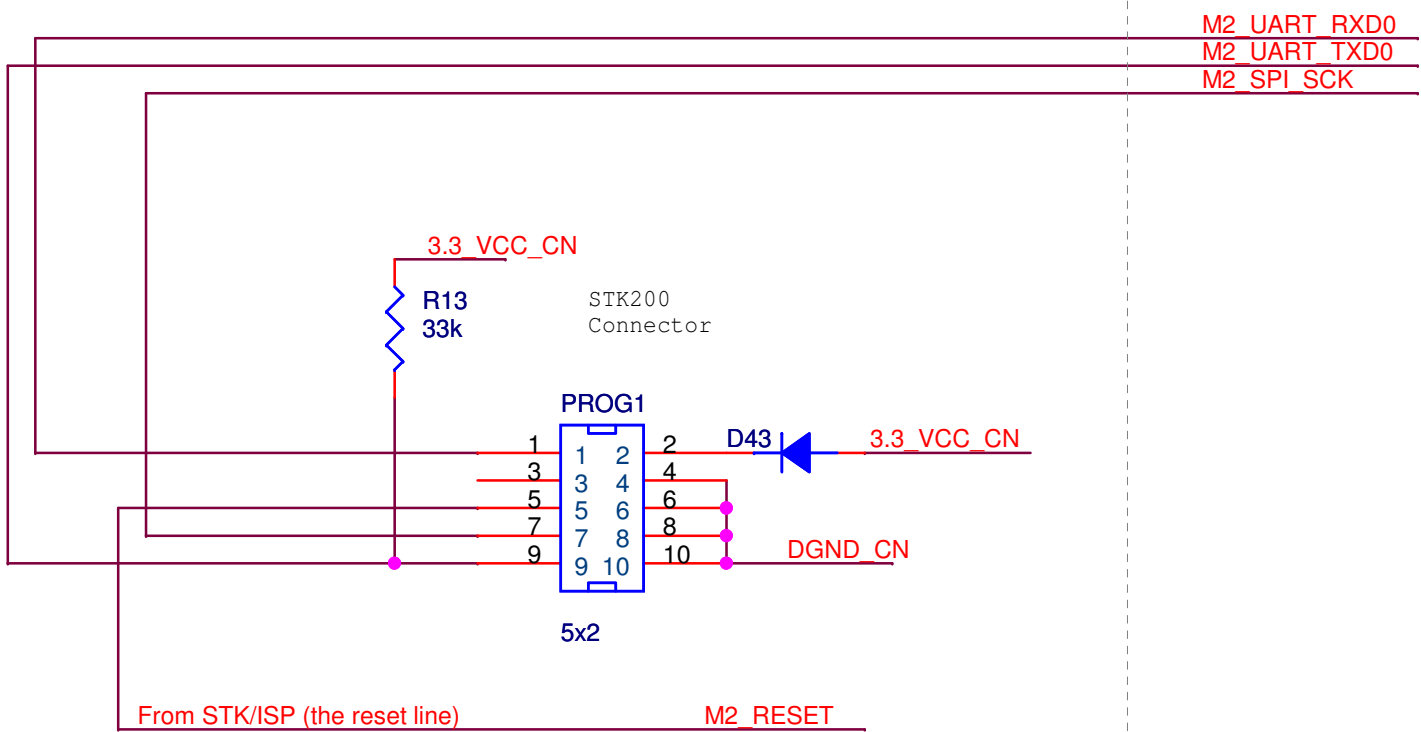


 NESL Networked & Embedded Systems Laboratory	56-125KK, EE4 420 Westwood Plaza Los Angeles, CA 90095	Phone: 310-825-7707 Fax: 310-825-7928
	Jonathan Friedman, GSR; David Lee, GSR Networked Embedded Systems Laboratory (NESL) University of California, Los Angeles (UCLA)	
Project: Ragobot Title: Annuciation Description: Visual Annunciators for the Ragobot Main Board		
Size B	Copyright (c) 2004 The Regents of the University of California. All rights reserved.	Rev B2.F
Date:	Monday, April 18, 2005	Sheet 2 of 6

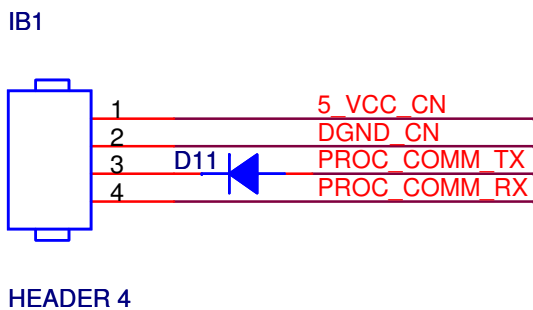
BRAIN1



STK/ISP Module



iB (iBADGE) Interface

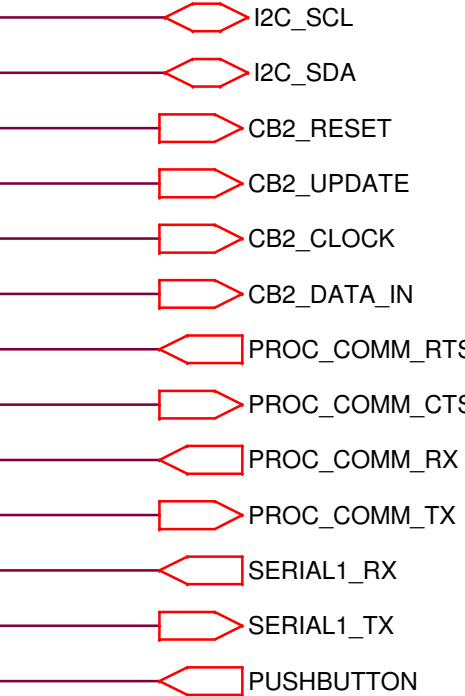


INDEPENDENT INTERFACE

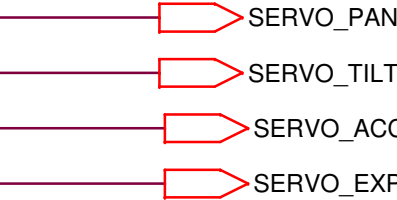
POWER DISTRIBUTION



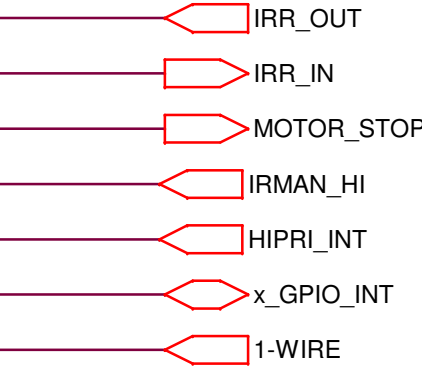
DIGITAL COMMUNICATIONS



SERVO CONTROL



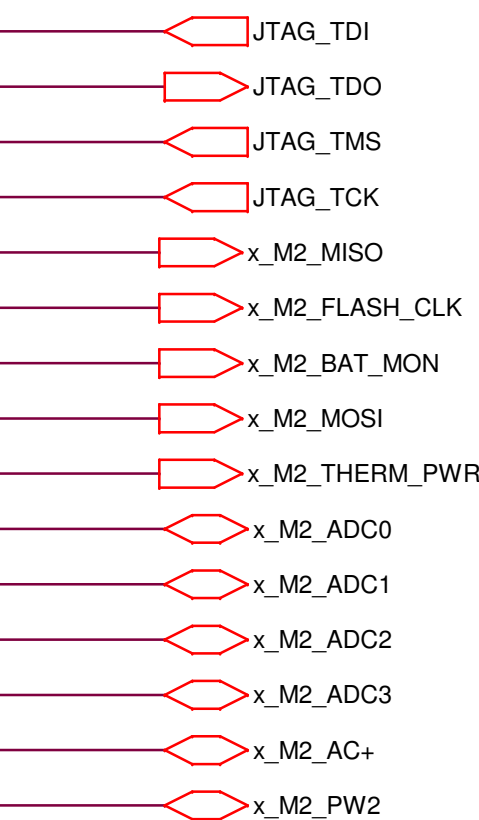
SENSORS

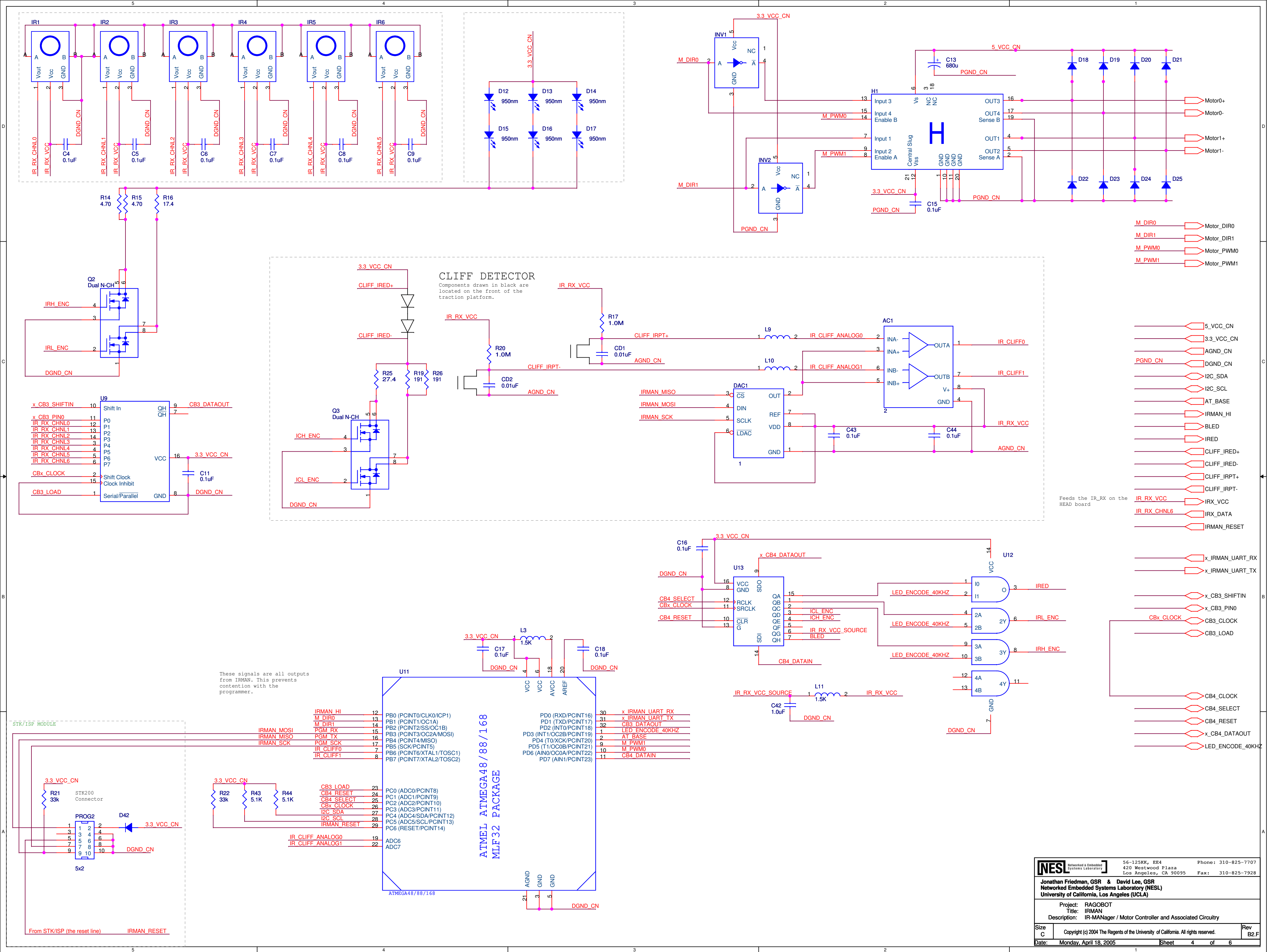


RESET

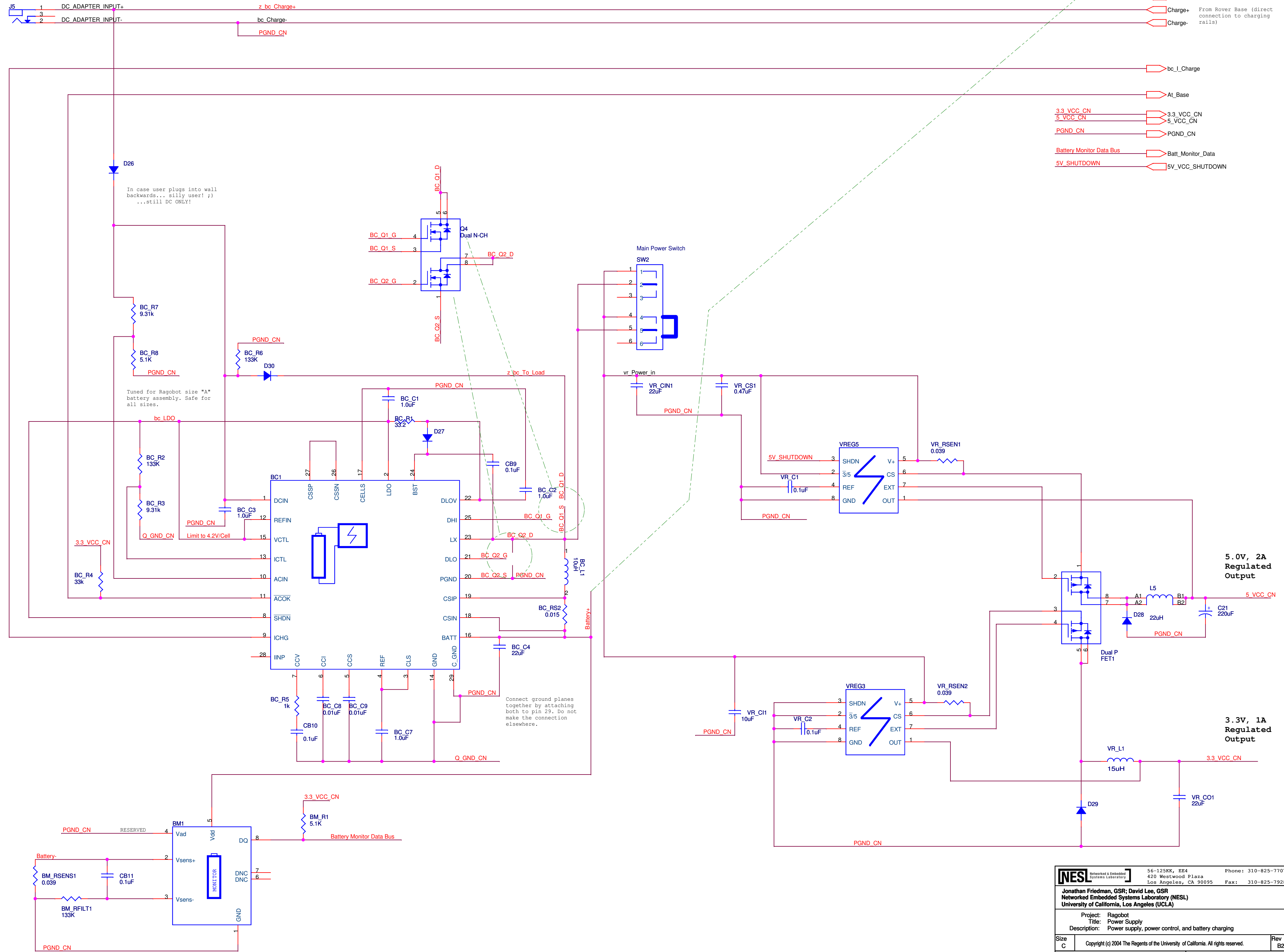


MICA2 / UNCOMMITTED PORTS

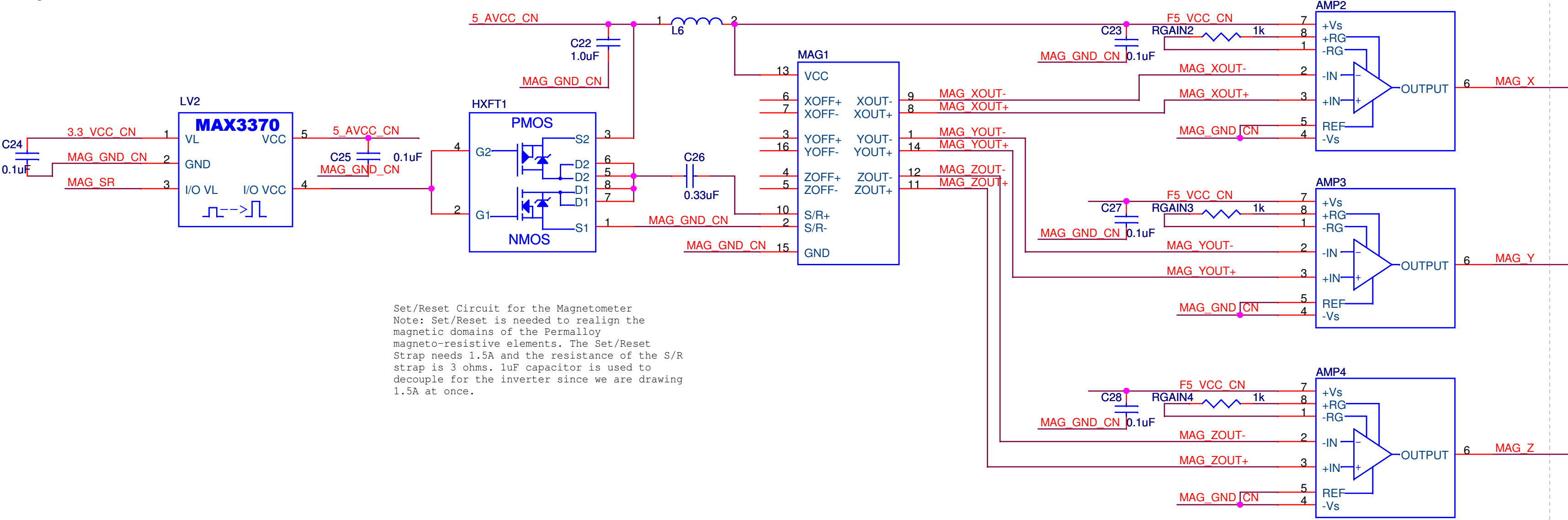




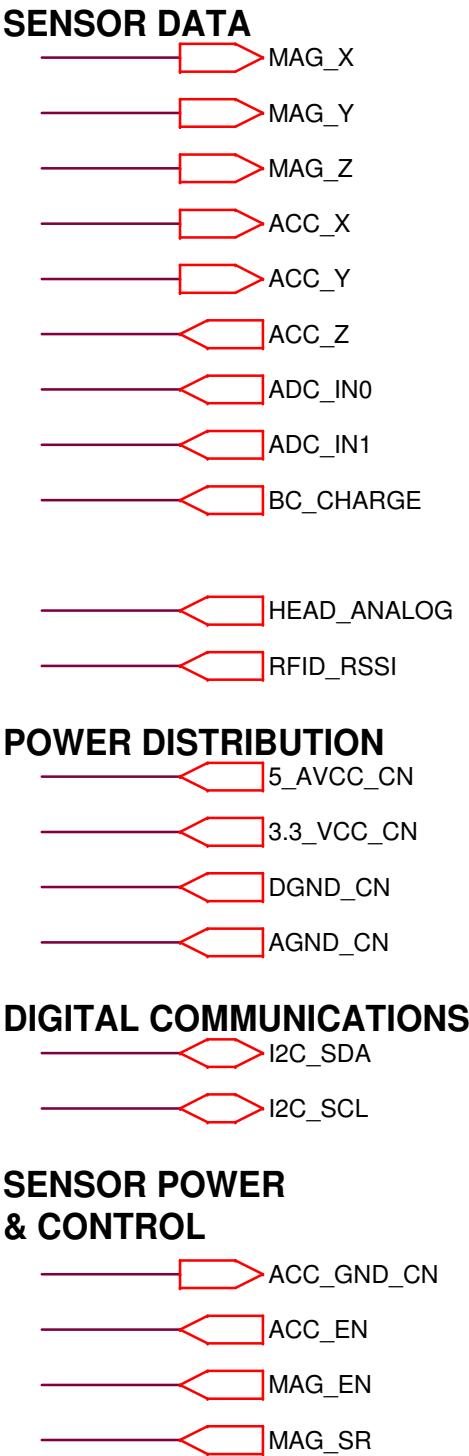
9VDC to 12VDC
Input from Wall



Magnetometer



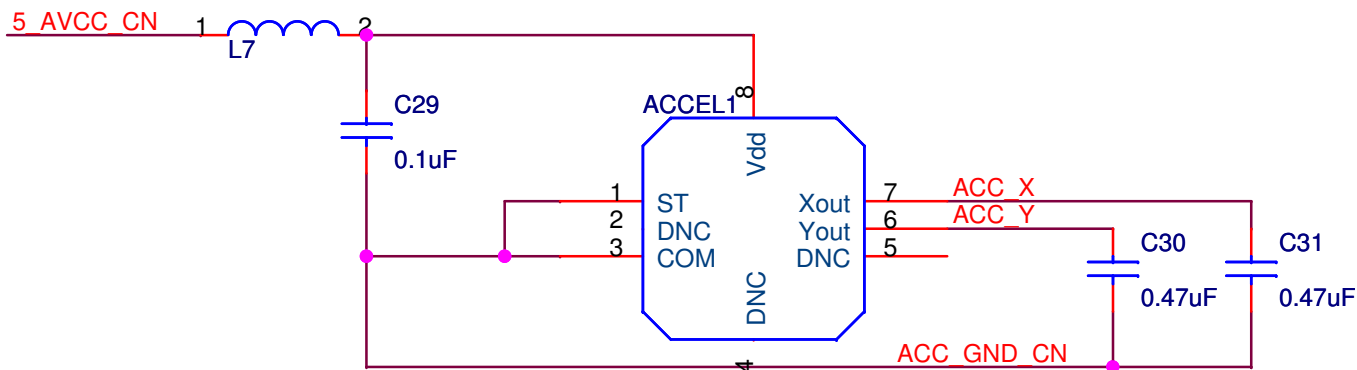
Hierarchical Block IO



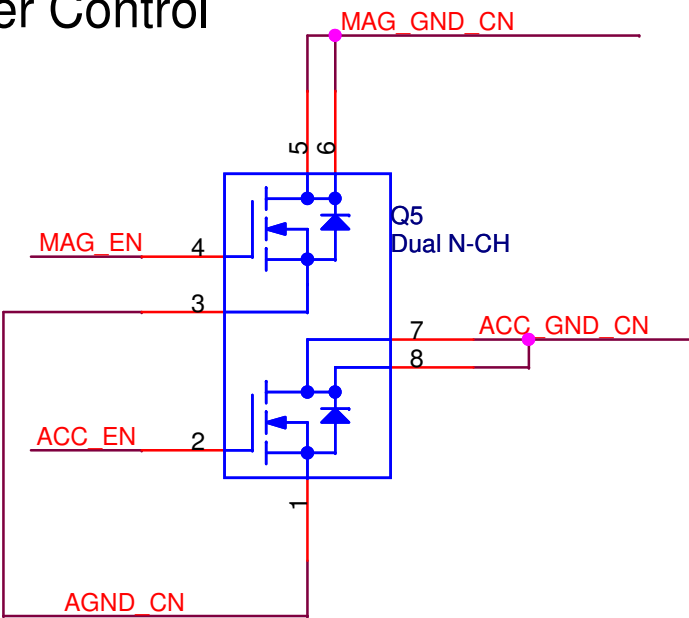
NOTE TO SELF!: 5_AVCC and 5_VCC are electrically isolated on the schematic. Attachment point must be implemented in post process.

NOTE TO SELF!: AGND and DGND are electrically isolated on the schematic. Attachment point must be implemented in post process.

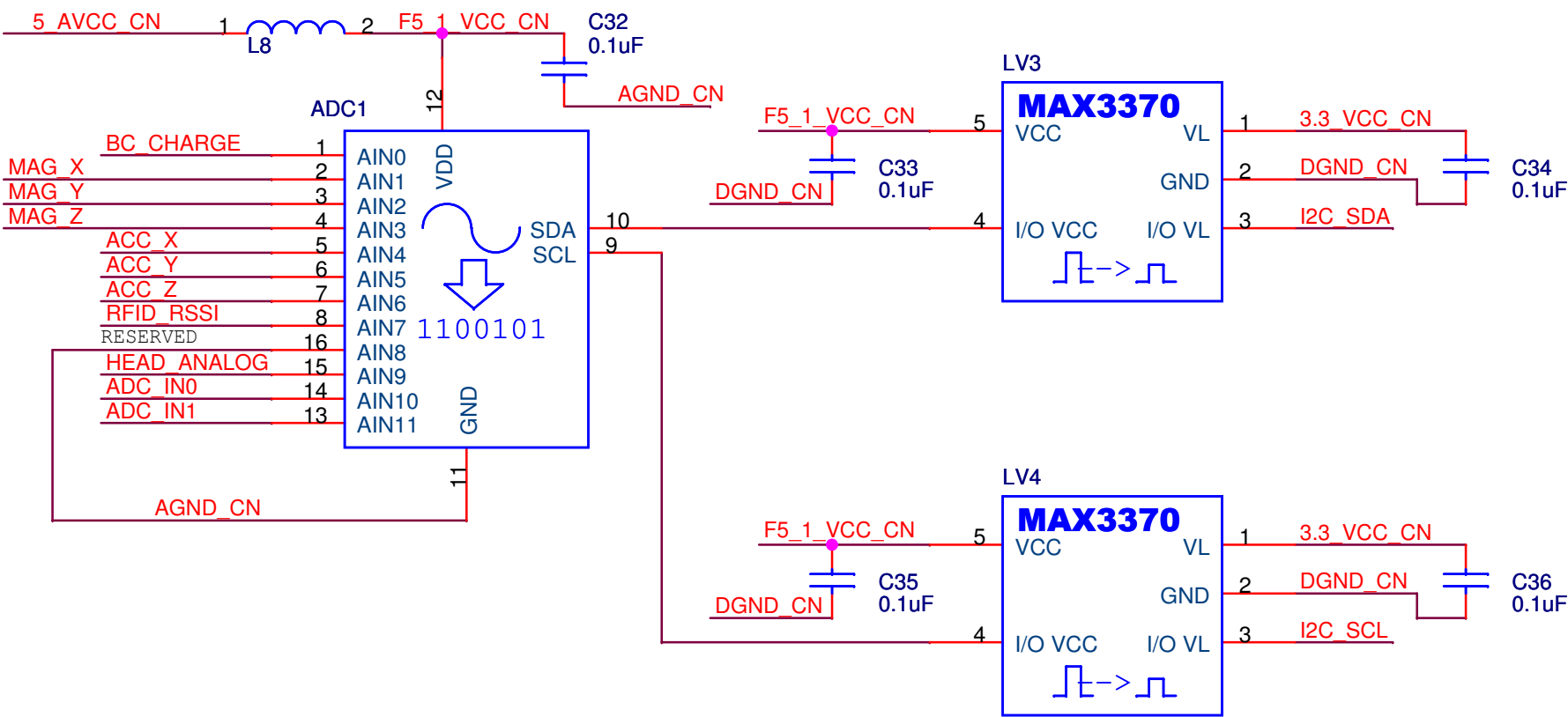
Accelerometer X and Y



Power Control



ADC with I2C interface



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David Lee, GSR; Jonathan Friedman, GSR Networked Embedded Systems Laboratory (NESL) University of California, Los Angeles (UCLA)			
Project: Ragobot Title: Sensors Description: Sensors on the main Ragobot board			
Size B	Copyright (c) 2004 The Regents of the University of California. All rights reserved.		
Date: Thursday, April 14, 2005	Sheet 6	of 6	Rev F