

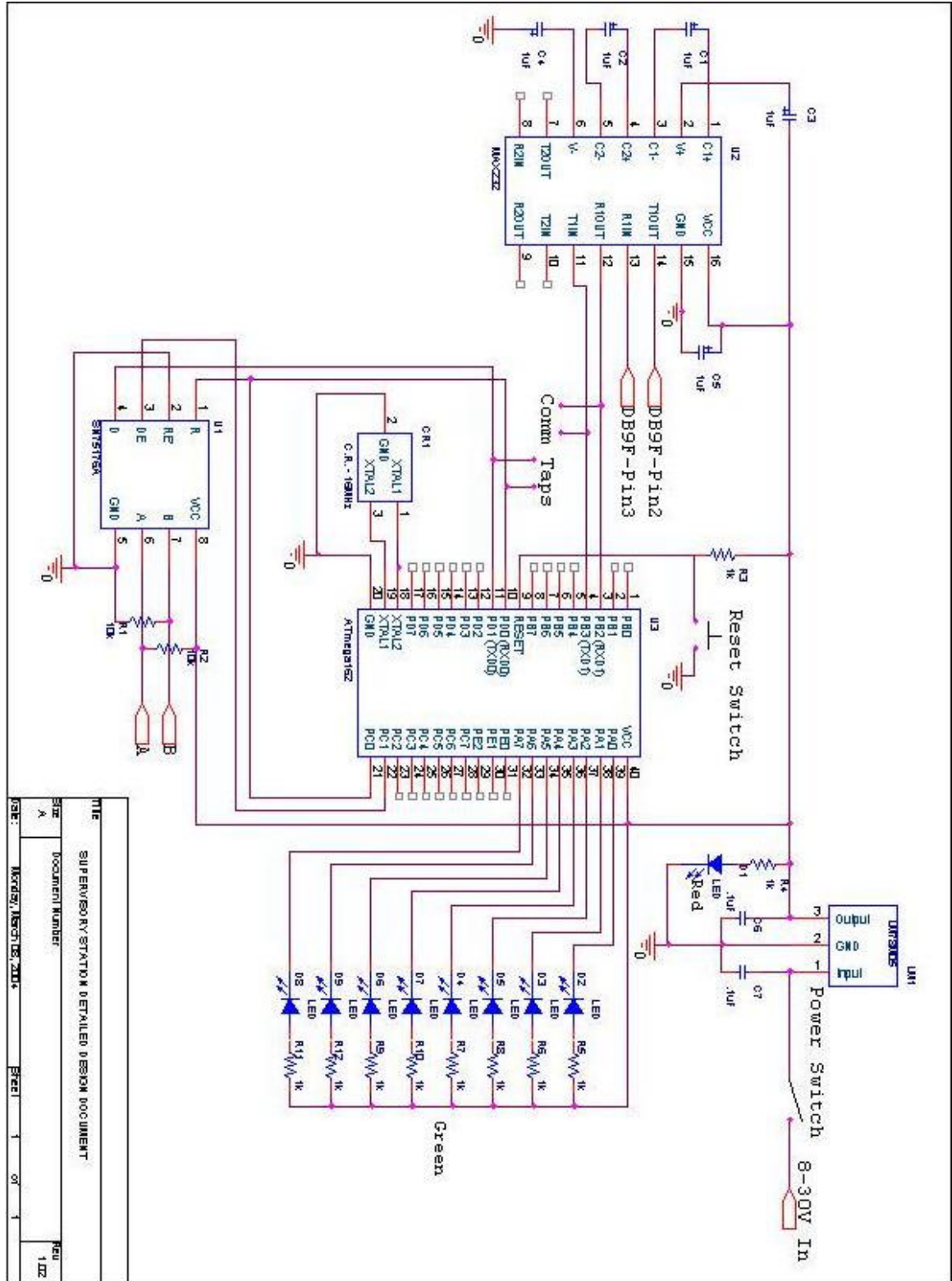
Cooperative Mining Robots Detailed Design Document

ISSUE RECORD				
Engineer	Issue No.	Reason for Reissue	Page/Pages	Date
Brooks Barrett Joe Galyean Tom Gauntner Shaun Heilmann Rob Lane Salman Mujahid John Nawrocki Kristen Radecky Jason Salisbury Manon Skrzypecki Jeff Stofanak Andrew Thomas	1.00	New This document provides the detailed designs for each functional block diagram.	All	March 9, 2004

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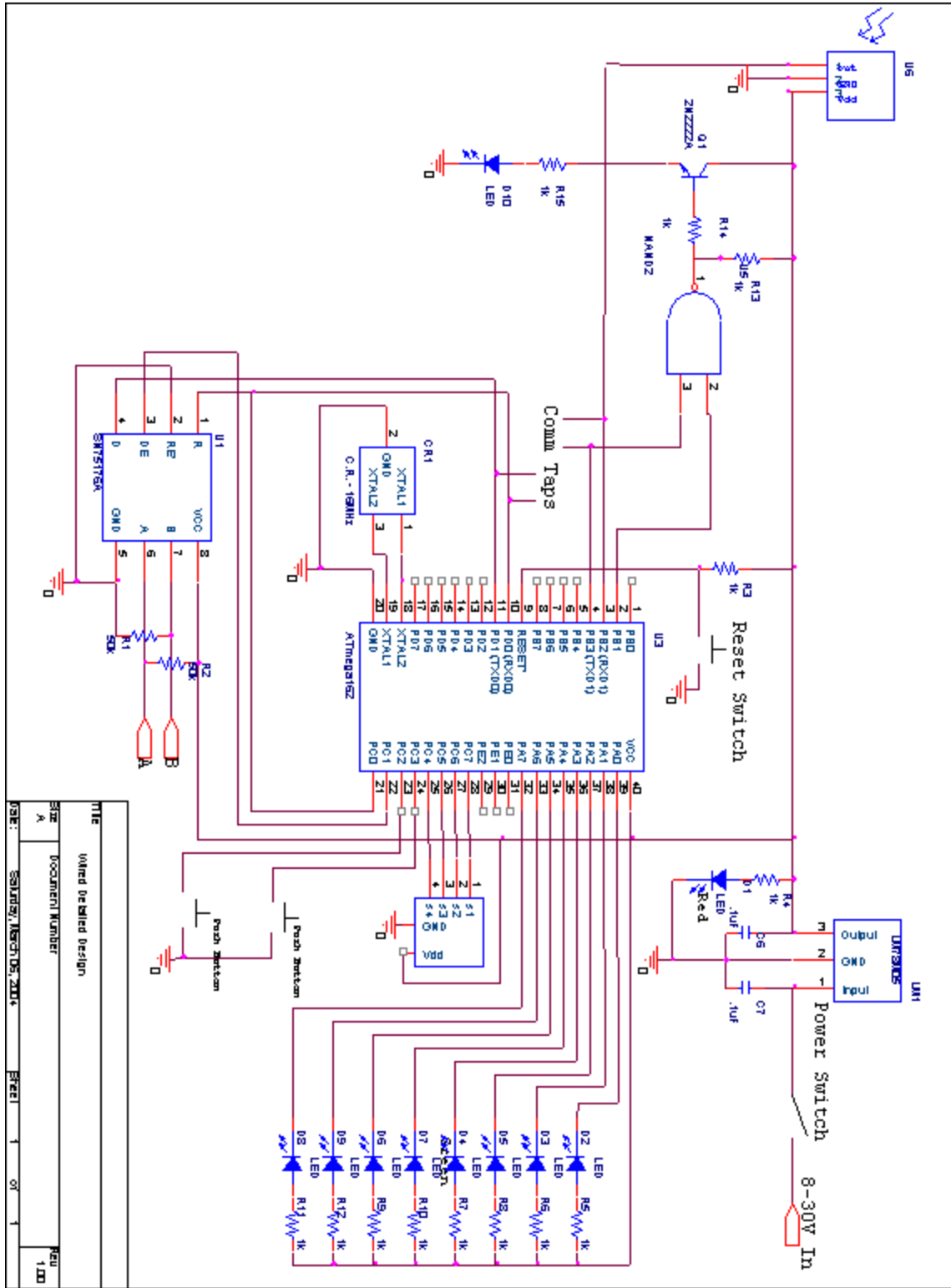
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Supervisory Station Functional Block Detailed Design



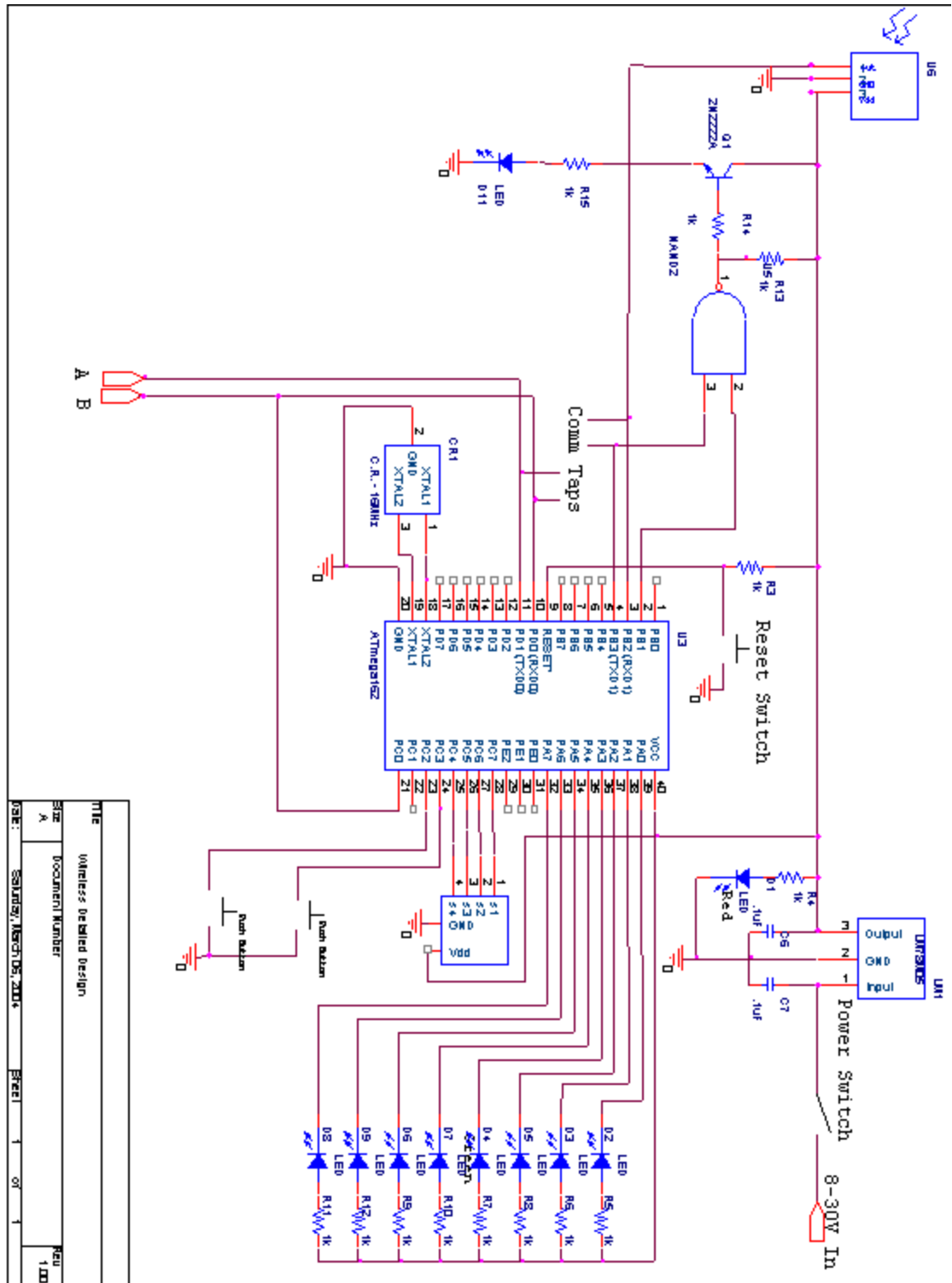
REF	DESCRIPTION
U1	STATUS
U2	MAX232
U3	ATmega32
U4	DB9F-Pin2
U5	DB9F-Pin3
U6	Reset Switch
U7	Power Switch 8-30V In

Wired Communication Functional Block Detailed Design



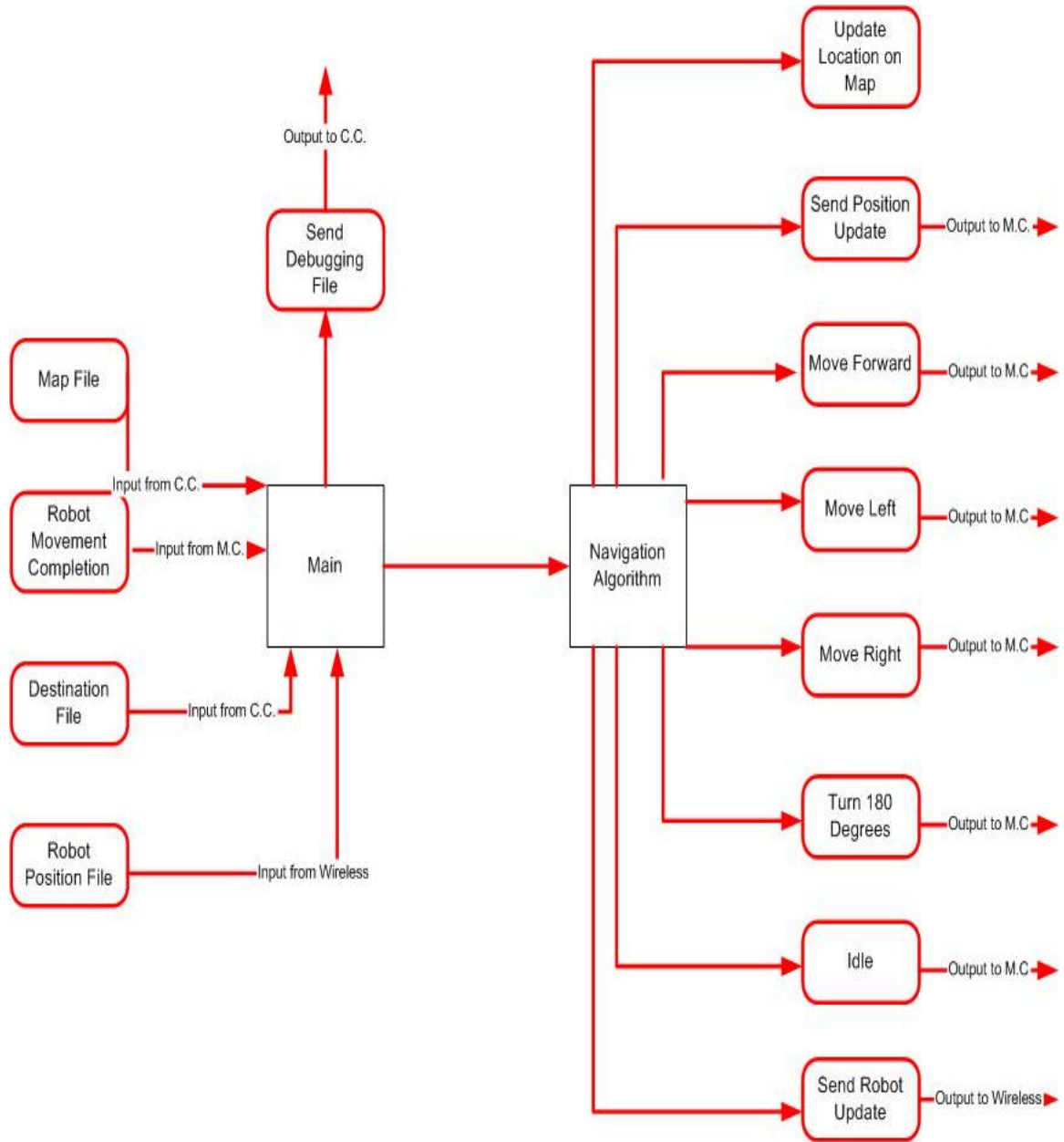
TITLE	
Size	Wired Detailed Design
Doc No	Document Number
Rev	1.00
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Wireless Communication Functional Block Detailed Design

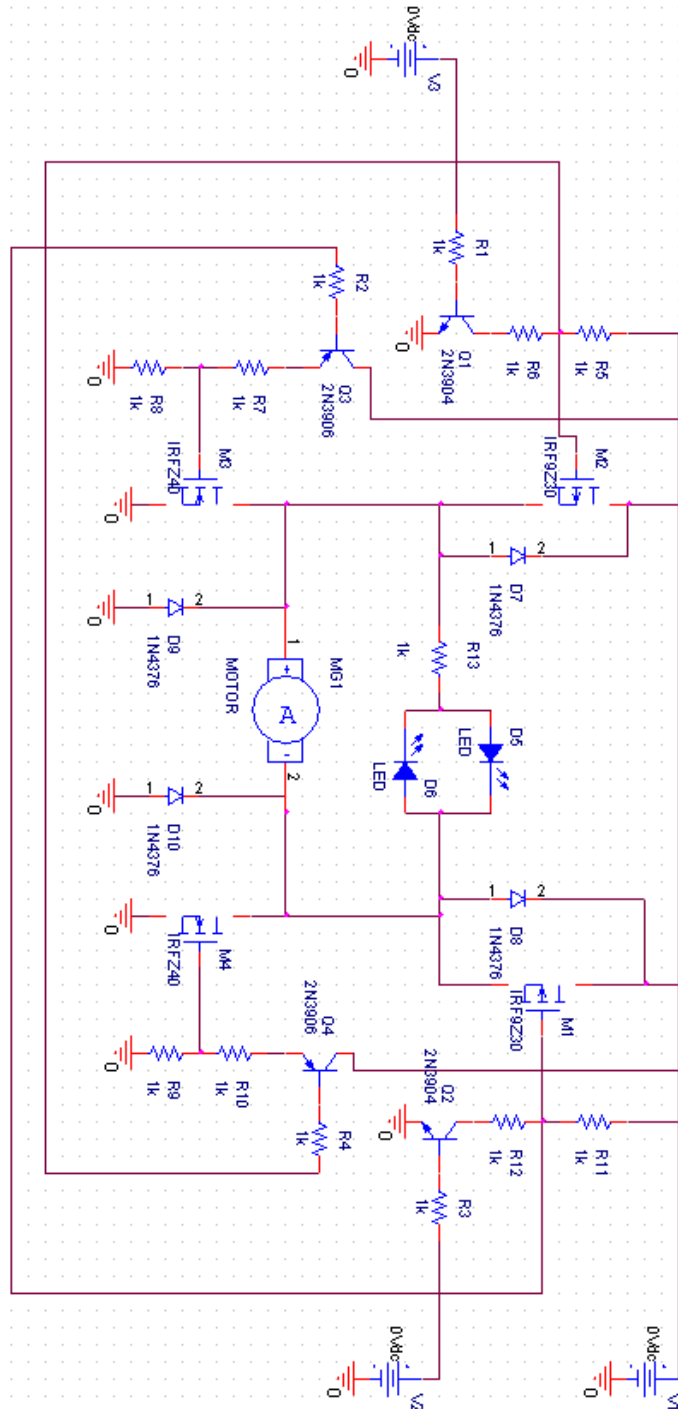


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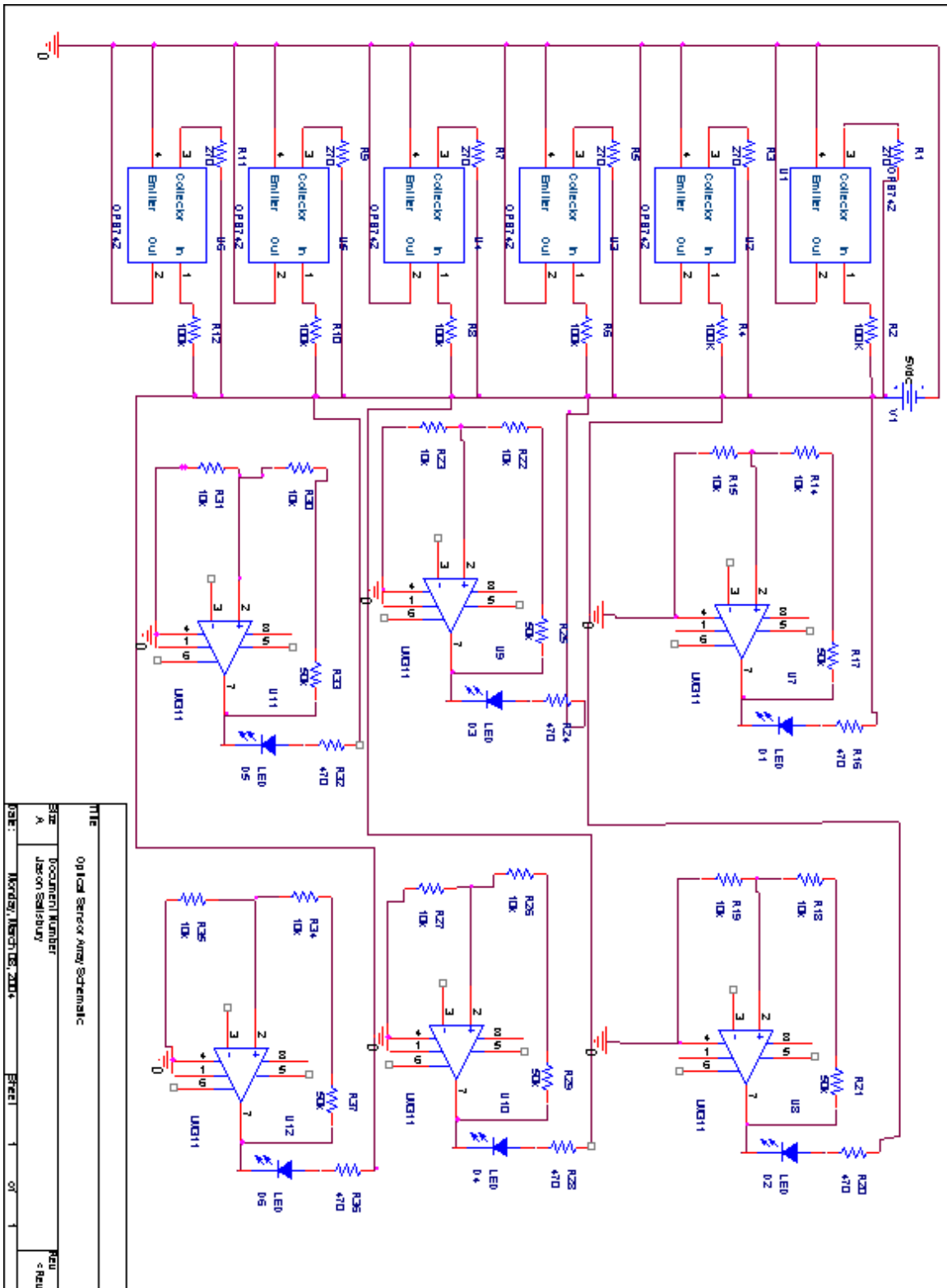
Navigation Functional Block Detailed Design



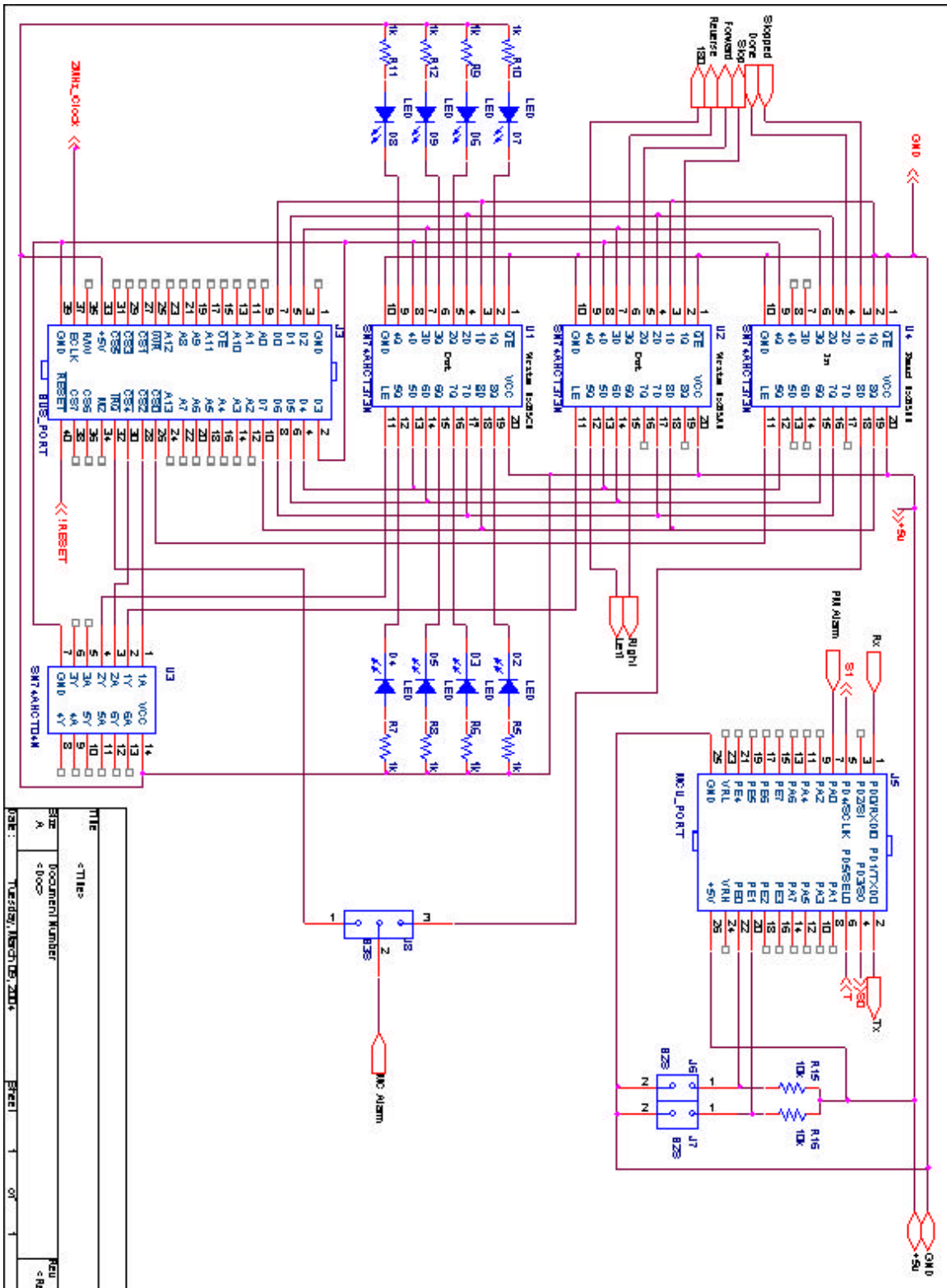
Motor Control Functional Block Detailed Design (H-Bridge)



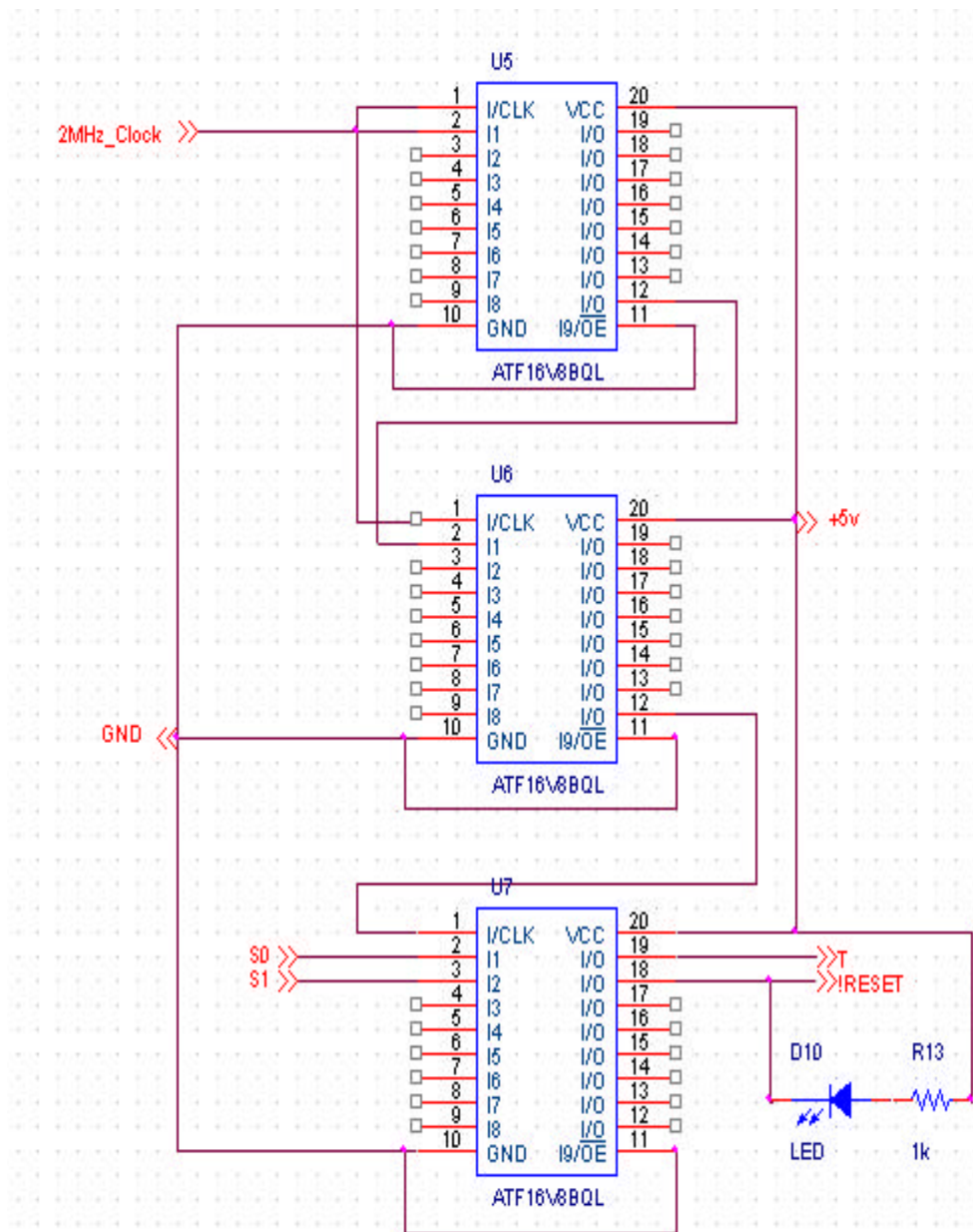
Motor Control Functional Block Detailed Design (Sensor Array)



Central Control Functional Block Detailed Design and Combined Navigation Functional Block Detailed Design



Sanity Functional Block Detailed Design



Power Functional Block Detailed Design

